

# Nomenclatural changes in *Coleus* and *Plectranthus* (Lamiaceae): a tale of more than two genera

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## Abstract

A synopsis of the genera *Coleus* Lour, *Equilabium* A.J.Paton, Mwany. & Culham and *Plectranthus* L'Hér. (Lamiaceae, Tribe Ocimeae, Subtribe Plectranthinae) is presented. Generic delimitation follows a recently published molecular phylogeny which identified *Coleus* as the sister of the remaining genera of Subtribe Plectranthinae; *Plectranthus* as sister to *Tetradenia* Benth. and *Thorncroftia* N.E.Br., and a separate phylogenetically distinct genus *Equilabium* comprising species previously placed in *Plectranthus*. In this treatment, 294 species of *Coleus*, 42 of *Equilabium*, and 72 of *Plectranthus* are recognized. All but one of the combinations in *Equilabium* are new as only the genus and type species have been previously published. Two-hundred and twelve names are changed to combinations in *Coleus* from *Plectranthus*, *Pycnostachys* Hook. and *Anisochilus* Benth.



## Keywords

*Anisochilus*, *Equilabium*, generic delimitation, nomenclature, Ocimeae, Plectranthinae, *Pycnostachys*, *Solenostemon*

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## Introduction

*Plectranthus* L'Hér. is a widely used horticultural and medicinal plant genus (van Jaarsveld 2007, Lukhoba et al. 2006, Rice et al. 2011). It belongs in tribe Ocimeae, subtribe Plectranthinae, an Old World tropical group of around 450 species. Current taxonomic treatments generally follow Harley et al. (2004) by including the formerly recognized *Coleus* Lour. and *Solenostemon* Thonn. within *Plectranthus*. However, within horticultural literature, *Solenostemon* is still frequently recognized (e.g. RHS (2017), Shepherd and Maybry (2016)). The commonly cultivated plant shown in Fig. 1 is thus variously known as *Plectranthus scutellarioides* (L.) R.Br or *Solenostemon scutellarioides* (L.) Codd., but “coleus” is frequently used as a common name for this species, increasing the confusion.

Recent phylogenetic work has shown that the circumscription of *Plectranthus* needs to be viewed in the context of related genera in Tribe Ocimeae, subtribe Plectranthinae. Paton et al. (2018) demonstrate that a clade containing the type of *Coleus* (*C. amboinicus* Lour.  $\equiv$  *P. amboinicus* (Lour.) Spreng.) is sister to the other genera of the Plectranthinae, and the type species of *Plectranthus*, *P. fruticosus* L'Hér., belongs in a clade which is sister to *Thorncroftia* N.E.Br and *Tetradenia* Benth. A further clade containing species that were previously placed in *Plectranthus* was recognized by Paton et al. (2018) as *Equilabium* Mwany., A.J.Paton & Culham (Fig. 2).

The aim of this paper is to provide the necessary nomenclatural changes consistent with the recognition of *Plectranthus*, *Coleus* and *Equilabium* as distinct genera following phylogenetic results provided by Paton et al. (2018).





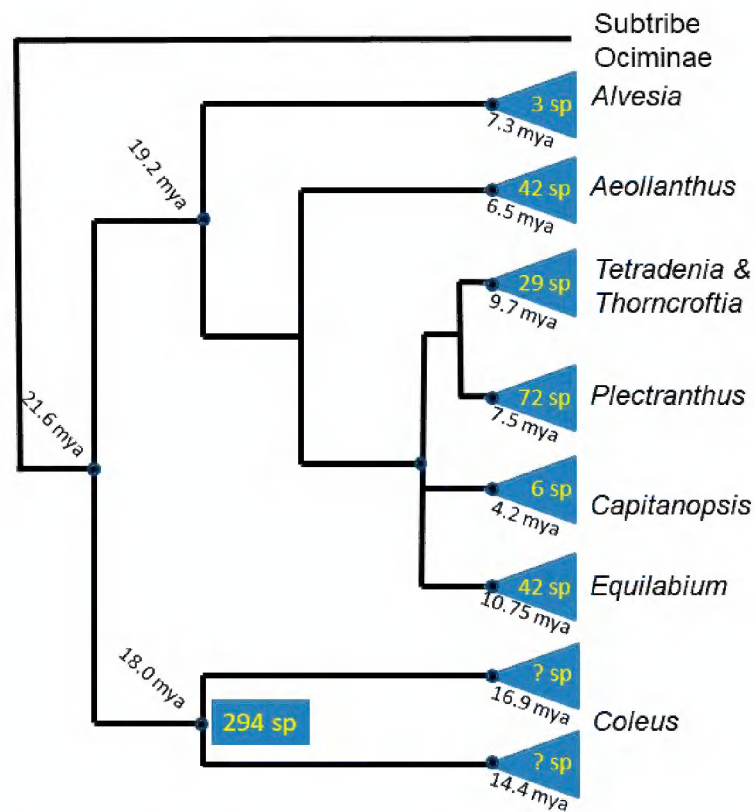
**Figure 1. A** Display of cultivated *Coleus scutellarioides* (L.) Benth. in the Real Jardin Botánico, Madrid. **B** Close up of the cultivar ‘Campfire’, winner of the Royal Horticultural Society’s peoples choice award at Wisley 2017 (Photo: A.Paton).

## Taxonomic history

*Plectranthus* was described by L’Héritier in 1788 (L’Héritier 1788) and *Coleus* by Loureiro in 1790 (de Loureiro 1790). In previous global reviews of the Lamiaceae, e.g. Bentham (1832, 1848, 1876) and Briquet (1897), *Coleus* was treated as distinct from *Plectranthus* by having the 4 stamens fused together rather than free to their base. Morton (1962) recognized that the character of the fused stamens was more plastic than previously thought and merged *Coleus* into *Plectranthus*, as first suggested by Brown (1810). However, Morton also placed weight on calyx characteristics leading him to recognize several genera based on calyx morphology including *Solenostemon*, *Isodictyophorus* A.Chev, *Leocus* A.Chev., *Englerastrum* Briq. and *Neohyptis* J.K.Morton. The merging of *Coleus* into *Plectranthus* has been followed by most authors since Morton’s account, for example, Keng (1978), covering Malesian species, Blake (1971, Australia), Codd (1985, southern Africa), Hedge et al. (1998, Madagascar), Suddee et al. (2004, Indochina), Forster (2011, Australia) and Paton et al. (2009, 2013, eastern and southern tropical Africa). Furthermore, although Codd (1985) and Morton (2006) also maintained *Solenostemon*, Keng (1978), Hedge et al. (1998) and subsequent authors recognised *Solenostemon* as synonymous with *Plectranthus*.

Despite the agreed taxonomic status by the above authors, Cramer (1978) maintained that *Coleus* is a separate genus from *Plectranthus*, as did Wu and Huang (1977)





**Figure 2.** Summarised phylogeny of the Plectranthinae showing relationships of recognised genera following Paton et al. (2018): the numbers in triangles represent species numbers though the numbers of species in the two subclades of *Coleus* cannot be estimated (see discussion); dates of branching are given in black.

and Li and Hedge (1994) for Chinese species. Cramer's decisions were in part based upon Sri Lankan *Coleus* that have imbricate bracts ("floral leaves") and a decurrent upper calyx lip in addition to fused stamens. Cramer also suggested *Plectranthus* could have a 3-lobed upper calyx lip, but that is misleading since he was considering species of *Isodon* (Schrader ex Benth.) Spach as part of *Plectranthus*: *Isodon* is now recognized in a separate subtribe and is very distinct from the Plectranthinae (Ryding 1993, Harley et al. 2004, Zhong et al. 2010).

A common theme in the treatments listed above is that, since Briquet (1897), all have been based on regional accounts of relatively small numbers of species. Morton (1962) considered 28 species of the *Coleus/Plectranthus* complex and Cramer (1978), 11 species. Morton recognized the problems in this narrow regional approach noting, "hence the genus *Plectranthus* must for the moment be a repository for *Coleus* or *Plectranthus*-like species which cannot satisfactorily be placed in other genera" and Cramer considered his account to be "by no means conclusive, least of all authoritative". Paton in Harley et al. (2004) thus took a broader approach, considering characters used to delimit allied genera in the context of the Plectranthinae as a whole. In Paton's treatment, *Coleus* and the small segregate genera recognized by Morton were merged into *Plectranthus*, making *Plectranthus s.l.* morphologically recognizable from other genera and an easily communicable concept. However, this was a conservative, morphologically based account and did not tackle how best to circumscribe taxa within the large *Plectranthus s.l.*

Paton et al. (2004) provided a preliminary test of the broad concept of *Plectranthus* by presenting a phylogeny of tribe Ocimeae, demonstrating that the Plectranthinae was a monophyletic group which could be generally diagnosed by having stamens



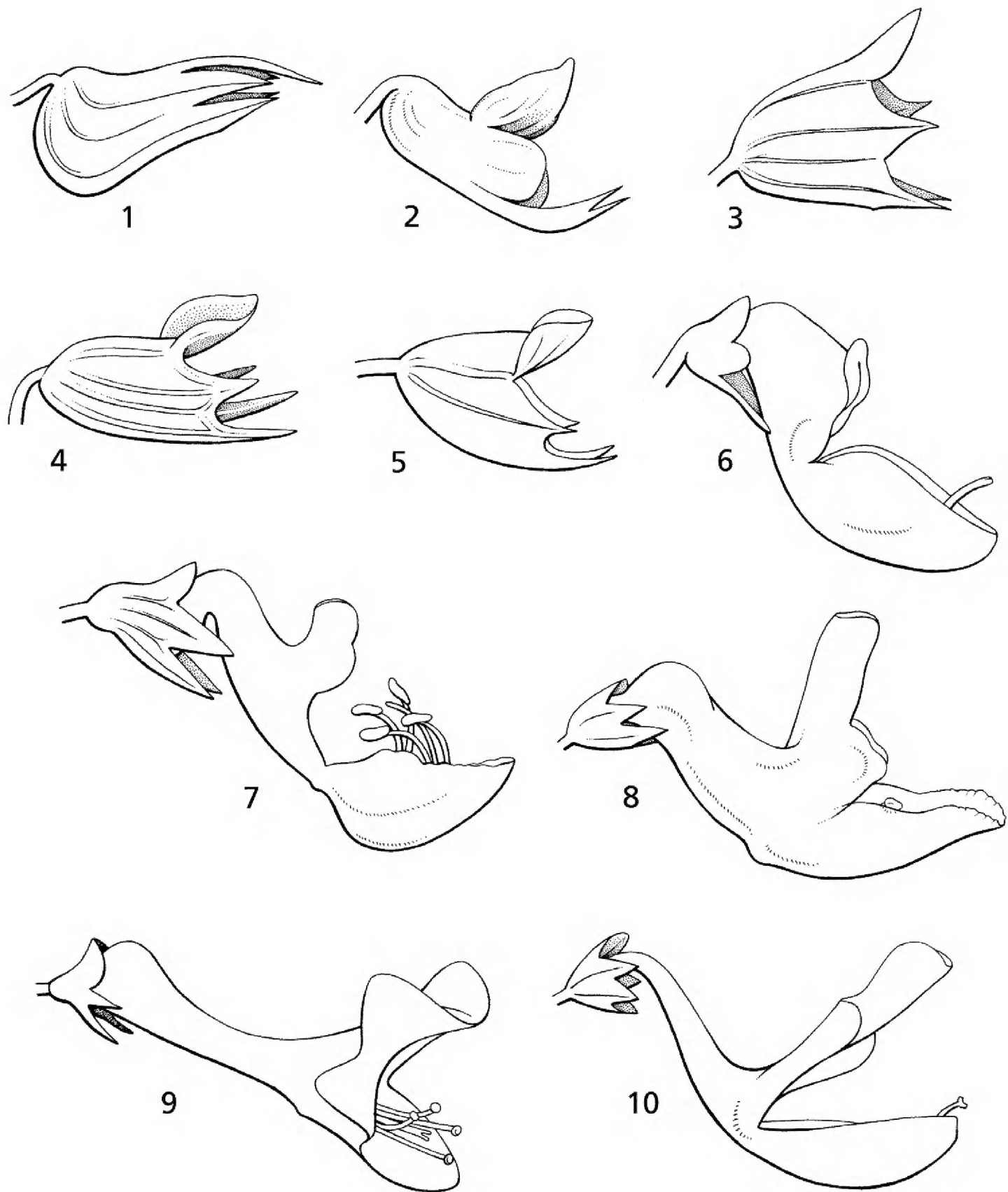
adnate and contiguous at the base of the anterior corolla lip. The presence of fused stamens, the original defining character of *Coleus*, was shown to be homoplasious by mapping it onto this phylogeny. However, the study identified two main clades within the Plectranthinae: one containing the type of *Coleus* and members of *Solenostemon*, *Leocus* A.Chev., *Pycnostachys* Hook. and *Anisochilus* Benth.; and the other containing the type species of *Plectranthus* and members of *Alvesia* Welw., *Aeollanthus* C. Mart. ex Spreng, *Capitanopsis* S.Moore, *Tetradenia* and *Thorncroftia*.

The phylogenetic study by Paton et al. (2018) increased the sampling of the Plectranthinae and added another plastid marker to increase tree resolution, and similarly found that *Plectranthus s. l.* was polyphyletic (see summary of analysis in Fig. 2). As a result of this work, Paton et al. (2018) suggested recognition of *Coleus* for the clade containing the *Coleus* type, *Plectranthus s.s.* for the clade sister to *Thorncroftia* and *Tetradenia*, and a new genus, *Equilabium*, for the clade formerly containing *Plectranthus* species mainly from tropical Africa, but with one in India. Paton et al. (2018) pointed out that these clades were morphologically diagnosable by characters that had been used to define informal morphological groups by Paton et al. (2009, 2013). These characters are the position of attachment of the pedicel to the calyx, the relative lengths of the corolla lobes and the shape of the corolla tube (Fig. 3). The phylogenetic results indicate that three genera recognized by Harley et al. (2004), (*Pycnostachys*, *Anisochilus* and *Leocus*) are nested within *Coleus*, and this close relationship is corroborated by species of intermediate morphology between *Coleus* and the former taxa *Pycnostachys* (Paton et al. 2009, 2013), *Anisochilus* (Suddee et al. 2014), and *Leocus* (Pollard and Paton 2009). Paton et al. (2018) also showed that *Solenostemon* is not monophyletic, and that recognition of *Solenostemon* would render *Coleus* paraphyletic by its exclusion, therefore we argue that *Solenostemon* should not be recognised.

## Methods

The phylogenetic study presented by Paton et al. (2018) was based on a representative sample of species of the Plectranthinae. Recent floristic accounts and the *World Checklist Of Selected Plant Families* were consulted (Govaerts et al. 2019, Paton et al. 2009, 2013, Suddee et al. 2004, Codd 1985, Hedge et al. 1998, Forster 1992, 1994, 2011 and references within). IPNI ([www.ipni.org](http://www.ipni.org)) was consulted to trace any recently described species of *Coleus* or *Plectranthus* and the protologues of these were examined. A survey of herbarium collections (AAU, BK, BKF, BM, BOL; BR, C, CALI, COI, EA, ETH, FT, G, HBG, K, L, LE, LMA, LISC, LMU, MEL, MH, MO, NHT, P, PRE, RNG, S, STU, TCD, UPS, W, WAG; Abbreviations following Thiers (2017)), was undertaken also using JSTOR Global Plants (<https://plants.jstor.org/>) to access type specimens not otherwise seen. Cited types have been seen unless otherwise stated. The attribution of species to the genera *Coleus*, *Plectranthus* and *Equilabium* was guided by the characters given in Paton et al. (2018) and in the key at the beginning of the taxonomic account below.





**Figure 3.** Calyx and corolla morphology. Calyxes in *Coleus* with pedicel attached excentrically above midline of calyx: **1** *C. betonicifolius* **2** *C. platyphyllus* showing the rounded lateral calyx lobe in some species of the formally recognized *Solenostemon*. Calyx in *Equilabium* with pedicel attached  $\pm$  at centre of calyx base with the lateral lobe held midway between the anterior and posterior lobes: **3** *E. megafolium* **4** *E. masukensis*. Calyxes in *Plectranthus* with pedicel attached  $\pm$  at centre of calyx base with the lateral lobe closer to the anterior than the posterior lobes: **5** *P. alboviolaceus*. Corolla shape in *Coleus* showing unequal anterior and posterior corolla lips: **6** *C. schizophyllus* **7** *C. hockii*. Corolla shape of *Equilabium* showing equal anterior and posterior corolla lips: **8** *P. parvus* **10** *P. laxiflorus*. Corolla shape of *Plectranthus* showing equal anterior and posterior corolla lips and gibbous-based corolla: **9** *P. strangulatus*. Drawn by Emmanuel Papadopoulos. Reproduced from *Flora of Tropical East Africa* (Paton et al. 2009).



## Results and discussion

The changes in generic delimitation proposed by Paton et al. (2018) have a large impact on nomenclature. An alternative nomenclatural treatment would be to consider the monophyletic Plectranthinae to be components of a single genus, *Plectranthus*. Most recent taxonomic papers have included *Coleus* within *Plectranthus*. However, taking 2005 as a starting point, following publication of Harley et al. (2004) as the most comprehensive baseline taxonomy for the Lamiaceae, 15,700 papers cite *Coleus* in the title, but only 9320 cite *Plectranthus* (source Google Scholar). This suggests that *Coleus* is still a broadly used concept. *Tetradenia* with mainly dioecious,  $\pm$  actinomorphic flowers is part of the sister group of the *Plectranthus* in the strict sense. Thus there are no easily observed morphological apomorphies that could be used to easily diagnose an enlarged *Plectranthus*; whereas the generic delimitation proposed in Paton et al. (2018), results in monophyletic genera which are relatively easy to diagnose morphologically.

In this treatment, 294 species of *Coleus*, 42 of *Equilabium*, and 72 *Plectranthus* are recognized. All the combinations in *Equilabium* are new as only the genus and type species *E. laxiflorum* have been previously published (Paton et al. 2018). 212 names need to be changed to combinations in *Coleus* from combinations in *Plectranthus*, *Pycnostachys* and *Anisochilus*. However, 82 of these combinations in *Coleus* already exist, reflecting previous confusion. No new names are necessary for species in *Plectranthus*.

Of the characters cited by Cramer (1978) as supporting the delimitation of *Coleus* and *Plectranthus*, the presence of a decurrent calyx tube is variable and found in *Coleus*, *Plectranthus* and *Equilabium*. Imbricate bracts do only occur in *Coleus*, but this character is only obvious in some species. Generally the species are very easy to attribute to *Coleus*, *Plectranthus* or *Equilabium* using the pedicel attachment, corolla lobe length and tube shape characters described in the key below. The presence of persistent bracts and slightly flattened nutlets also supports the division of *Coleus* (often caudex bracts and slightly flattened nutlets), from *Plectranthus* and *Equilabium* (usually persistent bracts and ovoid nutlets), though those characters have more exceptions than those characters used in the key. Both *Equilabium* and *Plectranthus* have rarely more than 3-flowered cymes, whereas *Coleus* can have one to very many flowers per cyme. Although species can be misplaced in some instances due to atypical corolla structure, the asymmetrical pedicel attachment at the base of the calyx gives the most clear indication of the species' placement in *Coleus*. Generic identification can be harder with small-flowered *Coleus* species that show asymmetrical pedicel attachment but have more or less equal corolla lips; however, the number of these cases is small. In *Equilabium* the upper lip can be slightly shorter than the lower lip in some cases but at the extreme it is about 0.8 of the length of the lower lip, whereas in *Coleus* the upper lip is usually much shorter. The southern African *Coleus zombensis* (Baker) A.J.Paton, *C. gibbosus* A.J.Paton (*Plectranthus rehmannii* Gürke) and *Coleus sessilifolius* (A.J.Paton) A.J.Paton can also provide confusion as the corolla is basally gibbous,



similar to that of many species of *Plectranthus*; however, they have a *Coleus*-like calyx and the corolla tube is sigmoid rather than straight as in true *Plectranthus*.

We present the list of species in alphabetical order, rather than according to the previously proposed infrageneric classification by Codd (1975), which is unworkable. Although the smaller infrageneric groups he recognized in the infrageneric classification of *Plectranthus s.l.* of Southern Africa are natural groups of related Southern African species, Codd's classification does not cover the extent of character variation and combinations seen outside the Flora of Southern Africa area, making it difficult to apply globally. As pointed out by Paton et al. (2018), groups previously thought to be easily delimited by morphological characters can be paraphyletic. For example, subgenus *Calceolanthus* Codd was delimited by Codd by having a dense ring of hairs in the calyx throat, but the phylogeny presented by Paton et al. (2018) suggests that the clade containing these species also contains species which lack this character. Larger infrageneric groupings recognized by Codd contain a mixture of lineages, for example, Codd's section *Plectranthus* while containing mostly species placed in *Plectranthus* here, also includes *P. dolichopodus* Briq. (here placed in *Coleus*) and *P. laxiflorus* Benth. and *P. petiolaris* Benth. (here both are placed in *Equilabium*).

Further study is required to provide a more robust formal infrageneric classification of *Coleus* and *Plectranthus*, although within *Coleus* there seems to be a continuity of form making further morphological diagnoses of clades difficult. There are two well supported clades within *Coleus* (clades A and B *sensu* Paton et al. (2018)), but no clear morphological apomorphies to diagnose these clades have been identified. Further phylogenetic work is underway by the authors: fifty species are now described for Australia and a current phylogenetic analysis focusing on these species is being prepared from a comprehensively sampled data set (T.C. Wilson, unpubl.); and an analysis of species in India is also being prepared (K. Smitha, unpubl.).

## Taxonomic account

A key to the genera of the Plectranthinae is provided and followed by treatments of the three genera now containing species of *Plectranthus s.l. sensu* Harley et al. (2004): *Coleus*, *Equilabium* and *Plectranthus*. New combinations of *Capitanopsis* and the generic protologue of *Equilabium* can be found in Paton et al. (2018). No changes to other genera of the Plectranthinae are proposed. The generic descriptions are followed by a listing of the species in alphabetical order with details of synonymy, types and distribution. The account ends with a list of unplaced names, followed by a list of excluded names now placed in other genera. Readers should also consult the online treatment in the World Checklist of Selected Plant Families (Govaerts et al. 2019, [www.kew.org/wcsp](http://www.kew.org/wcsp)) as this is continually updated and includes TDWG level 3 distributions and Raunkiaer life form descriptors. A short description of the Plectranthinae and key to the genera recognized is provided below.



**Subtribe Plectranthinae Endlicher, Gen. Pl.: 609. 1838.**

Herbs or shrubs. Inflorescence an indeterminate thyrses with cymes sessile or pedunculate, ebracteolate, rarely with minute persistent or deciduous bracteoles; bracts persistent or deciduous, rarely coloured. Calyx usually with a single-lobed posterior lip and a 4-lobed anterior lip, sometimes actinomorphic and regularly 5-lobed. Corolla strongly 2-lipped, rarely actinomorphic or subactinomorphic (*Tetradenia*), anterior lip concave to cucullate, more rarely flat. Stamens declinate, rarely spreading (*Tetradenia*), exserted, anterior and posterior attached adjacently at corolla throat (separated in *Tetradenia*). Disc usually 4-lobed, lobes alternating with nutlets. Nutlets with small inconspicuous areole.

**Key to the genera of the Plectranthinae**

- 1 Corolla actinomorphic, or almost so, stamens spreading not declinate ..... *Tetradenia*
- Corolla strongly zygomorphic, stamens declinate ..... 2
- 2 Lateral lobes of the corolla deflexed towards the anterior lobe ..... *Thorncroftia*
- Lateral lobes of the corolla ascending towards the median lobes of the posterior lip or horizontal and held between the anterior lobe and median lobes of the posterior lip ..... 3
- 3 Posterior lip of corolla truncate, lateral lobes usually horizontal, short, held between the anterior lobe and median lobes of the posterior lip ..... *Capitanopsis*
- Posterior lip of corolla not truncate, diverging from anterior lip of the corolla, with lateral lobes usually ascending and close to median lobes of posterior lip .. 4
- 4 Calyx basally circumscissile; tube distally dorsiventrally flattened ..... *Aeollanthus*
- Calyx very rarely circumscissile; tube not dorsiventrally flattened ..... 5
- 5 Calyx 3-lobed (1 upper, 2 lower), expanded and membranous in fruit ..... *Alvesia*
- Calyx 5-lobed (1 upper, 4 lower, or actinomorphic), rarely expanded and membranous in fruit ..... 6
- 6 Calyx with pedicel attached asymmetrically to the base of the calyx tube, opposite the posterior lip; corolla with upper (posterior) lip shorter than lower (anterior), rarely subequally lobed (Fig. 3) ..... *Coleus*
- Calyx with pedicel attached symmetrically to the base of the calyx tube, not opposite the upper lip, corolla lobes more or less equal in length (Fig. 3) ..... 7
- 7 Calyx throat truncate with lateral lobes of the calyx held midway between the uppermost and lowermost lobes; corolla tube usually sigmoid, parallel-sided at base, dilating towards throat (Fig. 3) ..... *Equilabium*
- Calyx throat oblique with lateral lobes of the calyx held closer to the lowermost pair of lobes than the upper lobe; corolla tube straight or curved downwards, usually gibbous, saccate or shortly spurred at base (Fig. 3) ..... *Plectranthus*



## Synopsis of genera and species of *Coleus*, *Equilabium* and *Plectranthus*

### Genus *Coleus*

#### *Coleus* Lour., *Fl. Cochinch.*: 372. 1790

Figs 4, 5

*Pycnostachys* Hook., *Exot. Fl.* 3: t. 202. 1826. *synon. nov.* Type: *P. coerulea* W.J.Hooker (here recognized under *Coleus stenostachys* (Baker) A.J.Paton, *non Coleus coeruleus* Gürke).

*Solenostemon* Thonn. in C.F.Schumacher, *Beskr. Guin. Pl.*: 271. 1827. Type: *Solenostemon ocymoides* Schumacher & Thonn (here recognized under *Coleus monostachyus* (P. Beauv.) A.J.Paton).

*Anisochilus* Wall. ex Benth., *Edwards's Bot. Reg.* 15: t. 1300. 1830. *synon. nov.* Type: *Anisochilus carnosus* (L.f.) Wall. ex Benth. (here recognized under *Coleus strobilifer* (Roxb.) A.J.Paton, *non Coleus carnosus* Hassk.).

*Mitsa* Chapel. ex Benth. *nom. inval.* *Labiata. Gen. Spec.*: 52. 1832.

*Echinostachys* E.Mey., *Comm. Pl. Afr. Austr.*: 243. 1838. *synon. nov.* Type: *Echinostachys reticulata* E.Mey. (here recognized under *Coleus kirkii* (Baker) A.J.Paton, *non Coleus reticulatus* A.Chev.).

*Saccostoma* Wall. ex Voigt, *Hort. Suburb. Calcutt.*: 449. 1845. Type: *S. urticifolius* Voigt. (See unplaced names).

*Majana* Rumph. ex Kuntze, *nom. superfl.* *Revis. Gen. Pl.* 2: 523. 1891.

*Englerastrum* Briq., *Bot. Jahrb. Syst.* 19: 178. 1894. Type: *E. schweinfurthii* Briq. (here recognized under *Coleus rhodesianum* (N.E.Br.) A.J.Paton).

*Neomuelleria* Briq., *Bot. Jahrb. Syst.* 19: 180. 1894. Type: *N. welwitschii* Briquet (here recognized under *Coleus fredericii* G.Taylor).

*Capitanya* Schweinf. ex Gürke, *Bot. Jahrb. Syst.* 21: 105. 1895. Type: *Capitanya otostegioides* Gürke (here recognized as *Coleus otostegioides* (Gürke) A.J.Paton).

*Burnatastrum* Briq. in H.G.A.Engler & K.A.E.Prantl, *Nat. Pflanzenfam.* 4. 3A: 358. 1897. Type: *Burnatastrum lanceolatum* (Bojer ex Benth.) Briq. (here recognized as *Coleus lanceolatus* (Bojer ex Benth.) A.J.Paton).

*Stiptanthus* Briq. in H.G.A.Engler & K.A.E.Prantl, *Nat. Pflanzenfam.* 4. 3A: 352. 1897., *synon. nov.* Type: *Stiptanthus polystachyus* (Benth.) Briq. (here recognized as *Coleus polystachys* (Benth.) A.J.Paton).

*Symphostemon* Hiern, *Cat. Afr. Pl.* 1: 867. 1900. Type: *S. insolitus* (C. H. Wright) Hiern (here recognized as *Coleus insolitus* (C.H.Wright) Robyns & Lebrun).

*Leocus* A.Chev., *J. Bot. (Morot)* 22: 125. 1909. Type: *L. lyratus* Chevalier (here recognized as *Coleus lyratus* (A.Chev.) Roberty).

*Isodictyophorus* Briq., *Mém. Soc. Bot. France* 8: 285. 1917. Type: *I. chevalieri* Briquet (here recognized as *Coleus reticulatus* A.Chev.).



- Briquetastrum* Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 102. 1929. Type: *B. africanum* (Baker) W. Robyns et Lebrun (here recognized under *Coleus engleri* (Briq.) A.J.Paton, non *C. africanum* Benth.).
- Holostylon* Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 103. 1929. Type designated here: *Holostylon gracilipedicellatum* Robyns & Lebrun (here recognized as *Coleus gracilipedicellatum* (Robyns & Lebrun) A.J.Paton).
- Ascocarydion* G.Taylor, J. Bot. 69 (suppl. 2): 162. 1931. Type: *Ascocarydion mirabile* (Briq.) G.Taylor (here recognized as *Coleus mirabilis* Briquet).
- Neohyptis* J.K.Morton, J. Linn. Soc., Bot. 58: 258. 1962. Type: *Neohyptis paniculata* (Baker) J.K.Morton (here recognized under *Coleus guerkei* (Briq.) A.J.Paton, non *Coleus paniculatus* Benth.).
- Rabdosiella* Codd, Bothalia 15: 9. 1984. Type: *R. calycina* (Bentham) Codd (here recognized as *Coleus calycinus* (Benth.) A.J.Paton).
- Coleus* sect *Solenostemonoides* Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3A): 359. 1897. Type as below.
- Calchas* P.V.Heath, Calyx 5: 160. 1997. Type: *Solenostemon latifolius* (Hochst. ex Benth) J.K.Morton, designated by Codd (1975), here recognized under *Coleus bojeri* Benth.

**Type species.** *C. amboinicus* Lour.

**Description.** Annual or perennial herbs or shrubs, sometimes succulent, sometimes with a fleshy or tuberous rootstock. Leaves opposite, sometimes whorled. Inflorescence thyrsoid, strongly condensed to lax, with cymes sessile or pedunculate, sometimes with long cincinnate branches, 1–many-flowered; bracts subtending cymes usually not persistent beyond flowering, sometimes erect forming a coma at apex of flowering stem. Flowers sessile or pedicellate, sometimes spirally arranged on inflorescence axis. Calyx funnel-shaped to tubular, straight or curved, often ventrally gibbous, with pedicel attaching asymmetrically at calyx base opposite the posterior lip, two lipped to regularly 5-lobed, rarely circumscissile at base (*C. coeruleus*); throat glabrous, pubescent or bearded, open or closed by scales or converging lips; if regularly lobed the lobes triangular, lanceolate or spinescent; if two lipped, posterior lip 1-lobed, larger or similar size to other lobes, decurrent or not; anterior lip 4-lobed with lobes variously shaped; lateral lobes lanceolate, triangular to oblong or rounded; held midway between the posterior lobe and median lobes of the anterior lip; median lobes lanceolate to triangular, sometimes separated by a sinus or sometimes fused at base for a longer distance than the lateral and median lobes. Corolla two-lipped with posterior lip shorter than anterior lip, rarely subequal; tube sigmoid to almost straight, narrow and parallel-sided at base, expanding towards throat, very rarely gibbous, rarely annulate; posterior lip 4-lobed, erect or ascending; anterior lip horizontal cucullate to concave. Stamens 4; filaments fused together or free, held within the anterior lip or exerted. Style bifid with subulate lobes, rarely entire. Nutlets ovoid, often dorso-ventrally flattened.

294 species in the Old World tropics and subtropics; often cultivated elsewhere.



***Coleus abyssinicus* (Fresen.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200982-1

*Pycnostachys abyssinica* Fresen., *Flora* 21: 608. 1838. Type: Ethiopia, Sidamo, Rüppell s.n. (holotype: FR? Possibly lost, see Ryding 2006).

**Distribution.** Ethiopia.

***Coleus acariformis* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77200983-1

*Plectranthus acariformis* P.I.Forst., *Austrobaileya* 9: 279. 2014. Type: Australia, Queensland, Moreton District, Noosa National Park, Mt Emu, 5 Feb. 2014, P.I.Forster & G.Leiper PIF40678 (holotype: BRI; isotypes: K, MEL, NSW, US).

**Distribution.** Australia: Queensland.

***Coleus achankoviliensis* Smitha & A.J. Paton, nom. nov.**

urn:lsid:ipni.org:names:77200984-1

*Anisochilus petraeus* J.Mathew & Yohannan, *Taiwania* 62(2): 144. 2017, non *Coleus petraeus* (Backer ex Adelb.) A.J.Paton. Type: India, Kollam district, 1.5 km from Achankovil town, Achankovil, J.Mathew 4527 (holotype TBGT; isotype MSSRF).

**Distribution.** S. India.

***Coleus actites* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77200985-1

*Plectranthus actites* P.I.Forst., *Austrobaileya* 4: 163. 1994. Type: Australia, Queensland, Leichhardt District, Anvil Peak, Hodgson Range, NE of Clermont, 28 Aug. 1990, P.I.Forster PIF7255 (holotype: BRI).

**Distribution.** Australia: Queensland.



***Coleus adenanthus* (Dalzell & A.Gibson) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200986-1

*Anisochilus adenanthus* Dalzell & A.Gibson, Bombay Fl.: 206. 1861. Type: India, the Concan, near Dharwar, Bababoodan hills, Bombay Herbarium of the late N. A. Dalzell. Presented by Mrs Dalzell, April 1878, Dalzell s.n. (holotype: K).

*Anisochilus verticillatus* Hook.f., Fl. Brit. India 4: 629. 1885. Type: India, the Concan, near Dharwar, Bababoodan hills, Bombay Herbarium of the late N. A. Dalzell. Presented by Mrs Dalzell, April 1878, Dalzell s.n. (lectotype: K, designated by Suddee and Paton 2009).

**Distribution.** S. India.

***Coleus adenophorus* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200987-1

*Plectranthus adenophorus* Gürke, Bot. Jahrb. Syst. 30: 398. 1901.

*Englerastrum adenophorum* (Gürke) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 75. 1924.  
Type: Tanzania, Njombe District: Kipengere, Goetze 960 (holotype: B destroyed).

**Distribution.** SW. Tanzania.

***Coleus aegyptiacus* (Forssk.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200990-1

*Ocimum aegyptiacum* Forssk., Fl. Aegypt.-Arab.: cxv, 109. 1775.

*Plectranthus aegyptiacus* (Forssk.) C.Chr., Dansk Bot. Ark. 4(3): 21. 1922.

*Plectranthus crassifolius* Vahl, Symb. Bot. 1: 44. 1790., nom. illeg.

*Germanea crassifolia* Poir. in J.B.A.M.de Lamarck, Encycl., suppl. 2: 764. 1812., nom. superfl.

*Coleus zatarhendi* Benth., Labiat. Gen. Spec.: 50. 1832., nom. superfl.

*Plectranthus zatarhendi* E.A.Bruce, Bull. Misc. Inform. Kew 1935: 590. 1935., nom. superfl.

*Ocimum zatarhendi* Forssk., Fl. Aegypt.-Arab.: 109. 1775., nom. inval.

*Majana zatarhendi* (Forssk.) Kuntze, Revis. Gen. Pl. 2: 524. 1891, nom. inval. Type: Yemen, Beit el Fakih (Bayt al Faqih), Forsskål s.n. (type: not seen, believed destroyed); "Arabia", Herb. Forsskål s.n. (neotype: KIEL; C, K (photos), designated by Ryding and Paton (2001)).

*Coleus tenuiflorus* Vatke, Linnaea 43: 92. 1881.

*Plectranthus tenuiflorus* (Vatke) Agnew, Upland Kenya Wild Fl.: 636. 1974. Type: Kenya, Kitui, Hildebrandt 2742 (lectotype: CORD, designated by Paton et al. (2009)).



*Coleus camporum* Gürke, Bot. Jahrb. Syst. 19: 214. 1894. Type: Tanzania, Pangani District: Pangani R. ford, Volkens 485 (holotype: B, destroyed; isotype: BM, G).  
*Coleus ghindanus* Schweinf. ex Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 435. 1900. Type. Eritrea, Ghinda valley, Schweinfurth & Riva 2149 (holotype: K; isotypes: BR, FT, P).

**Distribution.** Eritrea to Tanzania, SW. Arabian Peninsula.

***Coleus affinis* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200991-1

*Pycnostachys affinis* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895.  
 Type: Tanzania, Mwanza, Stuhlmann 4693 (holotype: B, destroyed).  
*Pycnostachys speciosa* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895.,  
 non *Coleus speciosus* Baker f. Type: Kenya/Tanzania, east shore of Lake Victoria,  
 Fischer 499 (lectotype: B, destroyed, designated by Bruce 1940).  
*Pycnostachys dawei* N.E.Br., Gard. Chron., ser. 3, 41: 18. 1907. Type: cultivated from  
 seed sent from Uganda, Dawe s.n. 1906 (holotype: K).

**Distribution.** Rwanda to E. Trop. Africa.

***Coleus albicalyx* (Suddee) Suddee, comb. nov.**

urn:lsid:ipni.org:names:77200993-1

*Plectranthus albicalyx* Suddee, Kew Bull. 59: 401. 2004. Type: Thailand, Kanchanaburi,  
 Salak Phrae W.S., Khao Tab Tao, 480 m, 29 Sept. 1998, Suddee et al. 868 (holo-  
 type: BKF; isotypes: K, TCD).

**Distribution.** Thailand.

***Coleus aliciae* (Codd) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77200995-1

*Plectranthus madagascariensis* var. *aliciae* Codd, Bothalia 11: 404. 1975.  
*Plectranthus aliciae* (Codd) van Jaarsv. & T.J.Edwards, Bothalia 27: 5. 1997. Type:  
 South Africa, Transkei, Butterworth, Kentani, Pegler 909 (holotype: PRE).

**Distribution.** South Africa: E. Cape Prov. to S. KwaZulu-Natal.



***Coleus alloplectus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77200997-1

*Plectranthus alloplectus* S.T.Blake, Contr. Queensland Herb. 9: 29. 1971. Type: Australia, Queensland, Mt Greville, 21 Apr. 1962, S.T.Blake 21703 (holotype: BRI).

**Distribution.** Australia: New South Wales, Queensland.

***Coleus alpinus* Vatke, Linnaea 37: 322. 1872**

*Plectranthus alpinus* (Vatke) Ryding, Bot. Jahrb. Syst. 121: 147. 1999. Type: Ethiopia, Edda Jesus near Dawra Tabor (Debra Tabor), 25 Sept. 1863, Schimper s.n. (lectotype: BM, designated by Ryding (1999); isolectotype JE).

*Coleus assurgens* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 428. 1900.

*Plectranthus assurgens* (Baker) J.K.Morton, J. Linn. Soc., Bot. 58: 267. 1962. Type: Ethiopia, Begemder, 1863- 8, Schimper s.n. (holotype: K, (K000431867)).

*Coleus schoensis* Gürke, Bot. Jahrb. Syst. 38: 170. 1906. Type: Ethiopia, Addis Abeba Highlands, Sept. 1900, Ellenbeck 1576 (holotype: B destroyed).

*Coleus gracilentus* S.Moore, J. Linn. Soc., Bot. 38: 273. 1908. Type: Uganda, E Ruwenzori, Wollaston s.n. (holotype: BM).

*Coleus microtrichus* Chiov., Nuovo Giorn. Bot. Ital., n.s., 36: 368. 1929. Type: Ethiopia, Arussi, Lake Zuai basin, Abruzzi 37 (holotype: TO; isotype: C).

*Coleus lebrunii* Robyns, Bull. Jard. Bot. État Bruxelles 17: 73. 1943. Type: DRC, Ruwenzori, Butagu valley, Robyns 4579 (holotype: BR; isotype: K).

*Coleus wittei* Robyns, Bull. Jard. Bot. État Bruxelles 17: 74. 1943. Type: DRC, Kamatembe, R. Bishkishaki, de Witte 1551 (holotype: BR).

**Distribution.** Nigeria to Ethiopia and south to Malawi.

***Coleus altanmouiensis* (T.C.Wilson, P.I.Forst., & M.A.M.Renner) T.C.Wilson & P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77200999-1

*Plectranthus altanmouiensis* T.C.Wilson, P.I.Forst., & M.A.M.Renner, Telopea 21: 84. 2018. Type: Cape Melville National Park, Cape York, Cook District, Queensland, 14 Aug 2015, T.C. Wilson 610 and M.A.M. Renner (holotype: NSW 985152; isotype: BRI).

**Distribution.** Australia: Queensland.



***Coleus amboinicus* Lour., Fl. Cochinch.: 372. 1790**

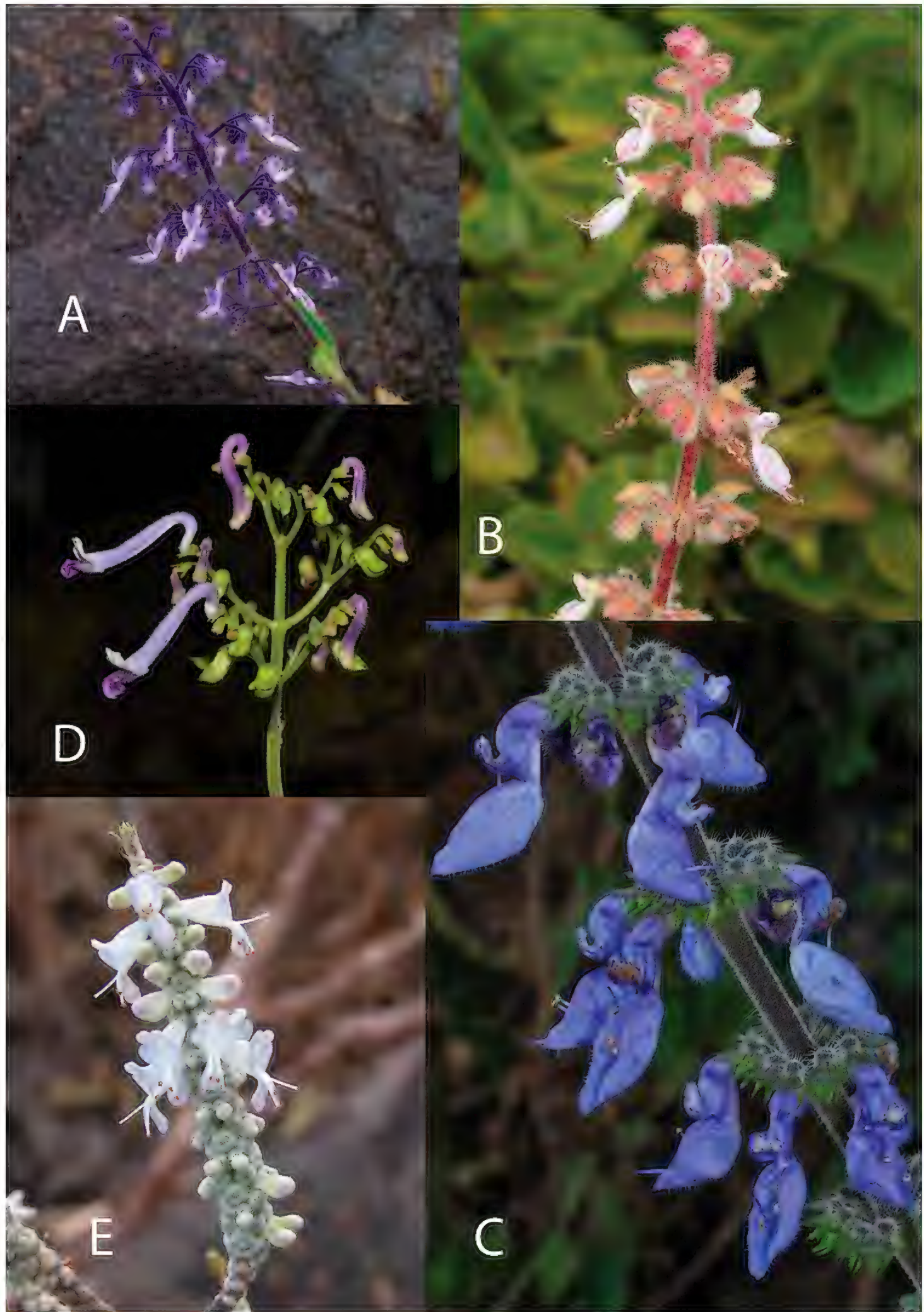
Fig. 4B

*Plectranthus amboinicus* (Lour.) Spreng., Syst. Veg. 2: 690. 1825.*Majana amboinica* (Lour.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Rumphius plate in Herb. Amb. 5, t. 102/2. 1750 (lectotype: illustration, designated by Cramer (1978); epitype, designated by Suddee et al. (2004) and based on the choice of a representative specimen selected by Launert (1968): Thailand, Pai District: Mae Hong Son, 25 May 1921, Kerr s.n. (epitype: BM).*Ocimum vaalae* Forssk., Fl. Aegypt.-Arab.: 111. 1775., nom. rej.*Coleus vaalae* (Forssk.) Deflers, Rev. Egypt: 423. 1894.*Coleus aromaticus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 16. 1830. Type: India, Patna, Buchanan-Hamilton Wall. Cat. 2730B (syntypes: K-W (K001116968, K001116969).*Coleus crassifolius* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 15. 1830. Type: India, Dindygul, Herb. Wight s.n. in Wall. Cat. 2731 (syntypes: BM, K (K000820149, K (K000820151); K-W (K001116970).*Coleus suganda* Blanco, Fl. Filip.: 483. 1837.*Majana suganda* (Blanco) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Philippines, Luzon, Maragondong, Cavite Province, Merrill: Species Blancoanae No. 129 (neotype, designated by Suddee et al. (2004): K). Blanco's specimens have not been traced and are believed destroyed.*Coleus carnosus* Hassk., Flora 25(2 Beibl.): 25. 1842.*Majana carnosa* (Hassk.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.*Coleus suborbicularis* Zoll. & Moritzi, Syst. Verz.: 4. 1846., nom. illeg. Type: Indonesia, Zollinger 1950 (holotype: G-DC; isotypes: A, P, S).*Coleus amboinicus* var. *violaceus* Gürke, Bot. Jahrb. Syst. 19: 210. 1894. Type: Tanzania, Moshi District: Lake Chala, Volkens 321 (syntypes: B destroyed, BM, K) & Pangani R. ford, Volkens 487 (syntypes: B, destroyed, BM, K).*Coleus subfrutectosus* Summerh., Bull. Misc. Inform. Kew 1928: 392. 1928. Type: Seychelles, Mahé, Botanical Station, Dupont 204 (holotype: K).**Distribution.** Kenya to South Africa, Arabian Peninsula, India.***Coleus amicum* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201000-1

*Plectranthus amicum* S.T.Blake, Contr. Queensland Herb. 9: 26. 1971. Type: Australia, Queensland, Tinaroo Range, 21 Aug. 1963, S.T.Blake 22094 (holotype: BRI).**Distribution.** Australia: Queensland.





**Figure 4.** Species of *Coleus* 1. **A** *Coleus anamudianus* (Photo: K. Smitha) **B** *C. amboinicus* (Photo: Neil Crouch) **C** *C. barbatus* (Photo: Neil Crouch) **D** *C. bracteatus* (Photo: Witawat Keiwbang) **E** *C. harmandii* (Photo: Thamarat Phutthai).



***Coleus amiculatus* (T.C.Wilson, P.I.Forst. & M.A.M.Renner) T.C.Wilson & P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201001-1

*Plectranthus amiculatus* T.C.Wilson, P.I.Forst. & M.A.M.Renner, *Telopea* 21: 81. 2018. Type: Along Pajinka Road, Cook District, Queensland, 8 Aug 2015, T.C. Wilson 595 & M.A.M. Renner (holotype: NSW (NSW985146); isotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus amoenus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201002-1

*Plectranthus amoenus* P.I.Forst., *Austrobaileya* 4: 656. 1997. Type: Australia, Queensland, Cook District, Baldy Mt., Atherton, Jun. 1991, P.I.Forster PIF8488 (holotype: BRI; isotypes: CNS, MEL).

**Distribution.** Australia: Queensland.

***Coleus anamudianus* (Smitha & Sunojk.) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201003-1

Fig. 4A

*Plectranthus anamudianus* Smitha & Sunojk., *Phytotaxa* 284(1): 52. 2016. Type: India, Kerala, Idukki district, in valley, wet rocky surfaces, Rajamala, Smitha & Sunojkumar 135412 (holotype: CALI; isotype MH).

**Distribution.** S. India.

***Coleus angolensis* (G.Taylor) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201004-1

*Pycnostachys angolensis* G.Taylor, *J. Bot.* 69 (suppl. 2): 164. 1931. Type: Angola, Casima, Anha, Gossweiler 1734 (holotype: BM).

**Distribution.** Angola.



***Coleus angulatus* (Hedge) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201005-1

*Plectranthus angulatus* Hedge, Fl. Madag. 175: 211. 1998. Type: Madagascar, Bekopaka, May 1964, Bosser 19616 (holotype: P; isotypes: E, MO, TAN).

**Distribution.** Madagascar.

***Coleus apoensis* Elmer, Leafl. Philipp. Bot. 7: 2694. 1915**

*Plectranthus apoensis* (Elmer) H.Keng, Gard. Bull. Singapore 24: 147. 1969. Type: Philippines, Mindanao, Davao distr., Todaya, Mount Apo, Sept. 1909, A.D.E. Elmer 11601 (holotype PNH (not seen); isotypes: GH, K).

**Distribution.** Philippines (Mindanao).

***Coleus apreptus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201006-1

*Plectranthus apreptus* S.T.Blake, Contr. Queensland Herb. 9: 47. 197. Type: Australia, Queensland, Freshwater Creek, near Cairns, 17 May 1962, S.T.Blake 21730 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus apricus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201007-1

*Plectranthus apricus* P.I.Forst., Austrobaileya 4: 165. 1994. Type: Australia, Queensland, Cook District. Turtle Rock Area, 22 Jan. 1991, P.I. Forster PIF12831 & A.R.Bean (holotype: BRI, isotypes: CNS, K, MEL).

**Distribution.** Queensland.

***Coleus arabicus* Benth. in A.P. de Candolle, Prodr. 12: 79. 1848**

*Majana arabica* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Arabia, Botta s.n. (holotype: P).



*Plectranthus asirensis* J.R.I.Wood, Kew Bull. 37: 601. 1983. Type: Saudi Arabia, Taif, Botta s.n. (holotype: P; isotype K).

*Teucrium mazziarii* Heldr. ex Nyman, Consp. Fl. Eur.: 567. 1881, nom. inval.

**Distribution.** Arabian Peninsula.

***Coleus arenicola* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201008-1

*Plectranthus arenicola* P.I.Forst., Muelleria 7: 375. 1991. Type: Australia, Queensland, Plant cultivated at St Lucia, Brisbane from material the same collection as P.I.Forster 5456 from Moreton Telegraph Station, near Kennedy Hill, 22 Oct. 1989, P.I.Forster PIF5835 (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland.

***Coleus argentatus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201009-1

*Plectranthus argentatus* S.T.Blake, Contr. Queensland Herb. 9: 27. 1971. Type: Australia, Queensland, Mt Roberts, McPherson Range, 5 May 1955, S.T.Blake 19803 (holotype: BRI).

**Distribution.** Australia: Queensland to NE. New South Wales. Widely cultivated (or hybrids from it).

***Coleus argenteus* (Gamble) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201010-1

*Anisochilus argenteus* Gamble, Fl. Madras: 1127. 1924. Type: India, Madras, Pulney Hills, Kodaikanal Ghat new road, 29 Dec. 1898, Bourne 1441C (lectotype: K; isolectotype: K, designated by Suddee & Paton (2009)).

**Distribution.** S. India.

***Coleus argentifolius* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201011-1

*Plectranthus argentifolius* Ryding, Kew Bull. 54: 122. 1999. Type: Solalia, Sanaag Region, Erigavo Escarpment, Popov 1218 (holotype: K; isotype: ETH).



**Distribution.** N. Somalia, Yemen.

***Coleus articulatus* (I.M.Johnst.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201012-1

*Symphostemon articulatus* I.M.Johnst., Contr. Gray Herb., n.s., 73: 38. 1924. Type: Angola, east of Cuanza (Coanza) R., *Curtis* 309 (holotype: GH).

*Plectranthus hockii* De Wild., Repert. Spec. Nov. Regni Veg. 11: 542. 1913.

*Plectranthus katangensis* De Wild., Ann. Mus. Congo Belge, Bot., sér. 4, 2: 135. 1913., nom. superfl.

*Holostylon katangense* (De Wild.) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 105. 1929., nom. superfl.

*Ocimum hockii* (De Wild.) Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 368. 1928., non *Coleus hockii* De Wild. Type: DRC, Upper Katanga, Dilemba, Hock s.n. (syntype: BR, K) & Plateau de Shinkwari (Manika), Hock s.n. (syntype: BR).

**Distribution.** SW. Tanzania, DRC, Malawi, Zambia, Angola.

***Coleus ater* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201014-1

*Anisochilus wightii* Hook.f., Fl. Brit. India 4: 628. 1885., non *Coleus wightii* Benth. Type: India, Deccan Peninsula, Anamallay Mts, July 1851, Herb. Wight 2132/1 (holotype: K; isotypes: C, L).

**Distribution.** S. India.

***Coleus auriglandulosus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201015-1

*Plectranthus auriglandulosus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 307. 2009. Type: Kenya, Tana R. District: Tana River National Primate Reserve, near Makere, Luke et al. TPR 605 (holotype, K; isotype: EA).

**Distribution.** SE. Kenya.

***Coleus australis* (R.Br.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201016-1

*Plectranthus australis* R.Br., Prodr. Fl. Nov. Holl.: 506. 1810.



*Moschosma australe* (R.Br.) Benth., Labiat. Gen. Spec.: 708. 1835.

*Moschosma brownii* Heynh., Alph. Aufz. Gew.: 421. 1847.

*Plectranthus parviflorus* var. *australis* (R.Br.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 357. 1895.

*Germanea australis* (R.Br.) Britten, Bot. Cook Voy. 3: 75. 1905. Type: New South Wales, Port Jackson, 17 May, 1802, R. Brown (lectotype: BM; isolectotypes: BRI, K, designated by Blake (1971)).

*Plectranthus australis* var. *vulgaris* Domin, Biblioth. Bot. 89: 564. 1928., nom. inval.

*Plectranthus parviflorus* Willd., Hort. Berol.: t. 65. 1806., non *Coleus parviflorus* Benth. Type: cultivated in Berlin, unknown origin, Wildenow Herbarium 11078 (holotype: B).

*Plectranthus paniculatus* Jacq., Fragm. Bot.: 62.tab 91. 1806., non *Coleus paniculatus* Benth. Type: Cultivated in Vienna. Illustration cited above.(lectotype: illustration designated here).

*Plectranthus parviflorus* Spreng. in L.V.F.Henckel von Donnersmarck, Adumbr. Pl. Hort. Hal.: 17. 1806., nom. illeg.

*Germanea parviflora* Poir. in J.B.A.M.de Lamarck, Encycl., suppl. 2: 764. 1811.

*Majana parviflora* (Poir.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Plectranthus sieberi* Benth., Labiat. Gen. Spec.: 710. 1835. Type: Australia, “In Nova Hollandia tropica Sieber” (holotype: K).

*Plectranthus parviflorus* var. *elatio*r Benth. in A.P.de Candolle, Prodr. 12: 67. 1848. Type: Northern Territory, Port Essington, Armstrong (holotype: K).

*Plectranthus parviflorus* var. *major* F.M.Bailey, Queensland Agric. J. 28: 199. 1912., nom. nud.

*Plectranthus parviflorus* var. *minor* F.M.Bailey, Queensland Agric. J. 28: 199. 1912., nom. nud.

*Plectranthus australis* f. *densiflora* Domin, Biblioth. Bot. 89: 564. 1928. Type: Queensland, Tamborin Mtn., Domin s.n. (holotype: PR).

**Distribution.** Australia, Lesser Sunda Is. to Pacific.

### ***Coleus autranii* Briq., Bull. Herb. Boissier 2: 129. 1894**

*Solenostemon autranii* (Briq.) J.K.Morton, Novon 8: 266. 1998.

*Plectranthus autranii* (Briq.) Erhardt, Götz & Seybold, Grosse Zander 2: 1825. 2008.

*Calchas autranii* (Briq.) P.V.Heath, Calyx 5: 160. 1996. Type: Ethiopia, no precise locality, 1853, Schimper 693 (holotype: G; isotype: K).

*Coleus silvaticus* Gürke, Bot. Jahrb. Syst. 19: 219. 1894.

*Solenostemon silvaticus* (Gürke) Agnew, Upland Kenya Wild Fl.: 640. 1974. Types: Tanzania, Lushoto District: Usambara, Holst 3704 & 3708 (syntypes: B, destroyed); neotype: Tanzania, W Usambara Mts, Shagai Forest, near Sunga, Drummond & Hemsley 2593 (neotype: K, designated by Paton et al. (2009)).



- Plectranthus tysonii* Gürke, Bot. Jahrb. Syst. 26: 77. 1898. Type: South Africa, Umzimkulu, Clydesdale, Tyson 1295 (isotypes: K, SAM (numbered 1295 SAM herbarium number and cited by Gürke), PRE (PRE numbered Hb. Tyson 2769 and cross referenced to 1295 as cited in Codd (1985))).
- Coleus odoratus* Gürke, Bot. Jahrb. Syst. 38: 167. 1906. Type: Tanzania, W Usambara Mts, Sakare, Engler 939 (syntype: B, destroyed; photo K); & Engler 1006 (syntype: B destroyed).
- Coleus latidens* S.Moore, J. Linn. Soc., Bot. 38: 273. 1908.
- Calchas latidens* (S.Moore) P.V.Heath, Calyx 6: 51. 1999. Type: Uganda, E Ruwenzori, Wollaston s.n. (holotype: BM).
- Coleus ostinii* Chiov., Ann. Bot. (Rome) 9: 125. 1911. Type: Ethiopia, Dembia, Angareb to Gondar and Fenter, Chiovenda 1450 (syntype: FT); Cococc above Gondar, Chiovenda 1854 (syntype: FT).
- Coleus darfurensis* R.D.Good, J. Bot. 62: 138. 1924.
- Solenostemon darfurensis* (R.D.Good) B.Mathew, Kew Bull. 25: 258. 1971. Type: Sudan, Jebel Mara, Lynes 4c (holotype: BM; fragment K).
- Coleus uliginosus* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 29. 1930. Type: Kenya, Meru, R.E. & T.C.E. Fries 1762 (syntype: B destroyed; isosyntype: K).
- Coleus ascendens* Gilli, Ann. Naturhist. Mus. Wien 77: 32. 1973. Type: Tanzania, Morogoro District: Uluguru Mts, Chenzema (Tchenzema), Gilli 456 (holotype: W).

**Distribution.** Ethiopia, Central Africa, East Africa to South Africa.

***Coleus barbatus* (Andrews) Benth. ex G.Don in J.C.Loudon, Hort. Brit.: 483. 1830**  
Fig. 4C

- Plectranthus barbatus* Andrews, Bot. Repos. 10: t. 594. 1810. Type: Illustration of cultivated material in Bot. Rep. 9, t. 594. 1809., (lectotype: illustration cited above; Eritrea, Dekemhare, Colville 47 (epitype: K, designated by Ryding (1999))).
- Coleus forskalaei* auct., non Briq.

**Distribution.** Eritrea to East and Central Africa, Arabian Peninsula, Indian Subcontinent to SC. China. Widely cultivated.

**Notes.** The name *Coleus forskalaei* or *forskohlii* has been often used incorrectly for this species.

***Coleus barbatus* var. *barbatus***

- Ocimum asperum* Roth, Nov. Pl. Sp.: 268. 1821.
- Plectranthus asper* (Roth) Spreng., Syst. Veg. 2: 690. 1825.

- Orthosiphon asperus* (Roth) Benth. ex Sweet, Hort. Brit., ed. 2: 413. 1830. Type: India, Mysore, Nundidroog, Heyne s.n. in Wall. Cat. 2728C (holotype: B destroyed; isotype: K-W).
- Plectranthus comosus* Sims, Bot. Mag. 49: t. 2318. 1822. Type: illustration of plant originally from Nepal, (lectotype: illustration cited above).
- Coleus huberi* Regel syn. nov., Trudy Imp. S.-Peterburgsk. Bot. Sada 7: 543. 1881. Type: Russia, cultivated in St Petersburg from seed collected in Ethiopia, (type not found in LE).
- Coleus penzigii* Dammann ex Baker, Gard. Chron., ser. 3, 14: 616. 1893. Type: cultivated at Kew, received from Hort. Dammann, probably originating from material collected by Penzig in “the mountains of Abyssinia” (holotype: K).
- Coleus vestitus* Baker, Bull. Misc. Inform. Kew 1895: 224. 1895. Type: Somalia, Golis Range, E. Cole s.n. (syntype: K); Lort-Phillips (syntype: K).
- Plectranthus pseudobarbatus* J.K.Morton, Novon 8: 265. 1998. Type: Somalia, Togdheer Region, Golis Range, Cole s.n. (lectotype: K; designated by Ryding (1999)).
- Coleus forskohlii* var. *adoensis* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 235. 1898. Type: Ethiopia, Adua, 1 Oct. 1837, Schimper 333 (holotype: not seen in G; isotypes: BR, K, MPU, WAG).
- Coleus speciosus* Baker f., J. Bot. 1899: 64. 1899. Type: Somalia, Woqooyi Galbeed/Togdheer Regions, “Wagga Mountains”, Lort-Phillips s.n. (holotype: BM; isotype K).
- Coleus coerulescens* Gürke, Bot. Jahrb. Syst. 38: 169. 1906.
- Plectranthus coerulescens* (Gürke) R.H.Willemse, Kew Bull. 40: 95. 1985. Type: Ethiopia, Harar, Ellenbeck 743 (holotype: B, destroyed; isotype: K).
- Coleus adolfi-friderici* Perkins in G.W.J.Mildbraed (ed.), Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 550. 1913. Type: Rwanda, Mohasi, Büschen to Buganza, Mildbraed 671 (holotype: B, destroyed).

**Distribution.** Eritrea to N. Tanzania, Arabian Peninsula, Indian Subcontinent to SC. China.

***Coleus barbatus* var. *grandis* (L.H.Cramer) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201018-1

*Coleus grandis* L.H.Cramer, Kew Bull. 32: 556. 1978.

*Plectranthus grandis* (L.H.Cramer) R.H.Willemse, Blumea 25: 509. 1979.

*Plectranthus barbatus* var. *grandis* (L.H.Cramer) Lukhoba & A.J.Paton, Kew Bull. 58: 915. 2003. publ. 2004. Type: Sri Lanka, Sita Eleiya, Cramer 3869 (holotype: PDA; isotypes: K, US).

*Coleus kilimandschari* Gürke, Abh. Königl. Akad. Wiss. Berlin 1891: 359. 1892.

*Plectranthus kilimandschari* (Gürke) H.I.Maass in R.Mansfeld, Verz. Landwirtsch. Gärtn. Kulturpfl. 3: 1136. 1986. Types: Tanzania, Kilimanjaro, Marangu, Meyer 377 (syntype: B, destroyed) & forest nearby, 2400 m, Meyer 116 (syntype: B, destroyed). Marangu, Volkens 427 (neotype, designated by Paton et al. (2009): K; isoneotype: G).



**Distribution.** NE. & E. Trop. Africa to DRC.

***Coleus bariensis* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201019-1

*Plectranthus bariensis* Ryding, Kew Bull. 54: 123. 1999. Type: Somalia, Bari Region, Escarpment of Bunder Murrayha, Buraha Dhaxi, Thulin & Warfa 5286 (holotype: UPS).

**Distribution.** N. Somalia.

***Coleus batesii* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201020-1

*Pycnostachys batesii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 386. 1900. Type: Cameroon, Efulen, Bates 372 (holotype: K.; isotype: BM).

**Distribution.** Cameroon to SW. Uganda.

***Coleus batianoffii* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201021-1

*Plectranthus batianoffii* P.I.Forst., Austrobaileya 7: 707. 2008. Type: Australia, Queensland, Cook District, Palfrey Island, 23 July 1990, G.N.Batianoff 12118 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus bellus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201402-1

*Plectranthus bellus* P.I.Forst., Austrobaileya 8: 388. 2011. Type: Australia, Queensland, Cook District, Daintree National Park, Adeline Creek headwaters, 18 May 1999, P.I.Forster PIF24610 & R.Booth (holotype: BRI; isotype, MEL).

**Distribution.** Australia: Queensland.

***Coleus betonicifolius* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201022-1

*Plectranthus betonicifolius* Baker, Bull. Misc. Inform. Kew 1895: 72. 1895. Types: Zambia, Fwambo, Carson 64 & 79 (syntypes: K).

*Elsholtzia carsonii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 450. 1900. Type: Zambia, Fwambo, S of Lake Tanganyika, 1890, Carson s.n. (holotype: K).

*Coleus baumii* Gürke in O. Warburg (ed.), Kunene-Sambesi Exped.: 357. 1903. Type: Angola, Cuito, Baum 544 (holotype: B, destroyed ; isotypes: G, K, W).

*Coleus kasomenensis* De Wild., Repert. Spec. Nov. Regni Veg. 11: 514. 1913. Types: DRC, Upper Katanga, Kasomenia, Kassner 2555 (syntype: BR; isosyntype: K) & near Lubumbashi (Elizsabethville), Homblé 246 (syntype: BR) & Welgelegen, Bequaert 382 & 564 (syntypes: BR).

**Distribution.** Tanzania, DRC, Zambia and Angola.

**Notes.** The West African *C. lyratus* (A.Chev.) Roberty has been removed from synonymy and recognized here as a separate species, differing from Paton et al. (2013).

***Coleus bifidus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201023-1

*Plectranthus bifidus* A.J.Paton, Fl. Zambes. 8(8): 235. 2013. Type: Zambia, Solwezi, Apr. 1960, Robinson 3520 (holotype: K; isotype: SRGH).

**Distribution.** Zambia.

***Coleus bishopianus* (Gamble) Smitha & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201025-1

*Plectranthus bishopianus* Gamble, Bull. Misc. Inform. Kew 265. 1924. Type: India. Tamil Nadu: Pulneys, shola forest at Pillar Rocks, 20 May 1901, A.G. Bourne and E.G. Bourne 1398 (lectotype: K, designated by Matthew (1993)).

**Distribution.** S. India.

***Coleus bipartitus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201026-1

*Plectranthus bipartitus* P.I.Forst., Austrobaileya 9: 208. 2014. Type: Australia, Queensland, Cook District, Hann Tableland National Park, west of Mareeba, 8 April 2013, P.I.Forster PIF39595 (holotype: BRI; isotypes: CNS, K, MEL).



**Distribution.** Australia: Queensland.

***Coleus blakei* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201027-1

*Plectranthus blakei* P.I.Forst., *Muelleria* 7: 417. 1992. Type: Australia, Queensland, Leichardt District, Mimosa Creek, Blackdown Tableland National Park, 16 May 1984, P.I.Forster PIF1782 (holotype: BRI; isotypes: K, MEL, NSW).

**Distribution.** Australia: Queensland.

***Coleus bojeri* Benth., Labiat. Gen. Spec.: 52. 1832**

*Solenostemon bojeri* (Benth.) Guillaumet & A.Cornet, *Adansonia*, n.s., 15: 525. 1976.

*Calchas bojeri* (Benth.) P.V.Heath, *Calyx* 5: 160. 1997.

*Plectranthus bojeri* (Benth.) Hedge, *Fl. Madag.* 175: 218. 1998. Type: Madagascar, Emirna, Betani-mena, Bojer s.n. (lectotype: P, designated by Hedge et al. 1998).

*Mitsa maculata* Chapel. ex Benth., *Labiat. Gen. Spec.*: 52. 1832. nom. inval.

*Plectranthus maculatus* Bojer ex Benth., *Labiat. Gen. Spec.*: 52. 1832. nom. inval.

*Coleus latifolius* Hochst. ex Benth. in A.P.de Candolle, *Prodr.* 12: 74. 1848.

*Majana latifolia* (Hochst. ex Benth.) Kuntze, *Revis. Gen. Pl.* 2: 524. 1891.

*Solenostemon latifolius* (Hochst. ex Benth.) J.K.Morton, *J. Linn. Soc., Bot.* 58: 271. 1962.

Types: Ethiopia, Gapdia, 17 Sept. 1838, Schimper 825 (syntypes: BM, E, K, G, GH, LG, STU, W) & Gafta, 18 Sept. 1838, Schimper 1228 (syntypes: BM, K, G, LG, W).

*Coleus latifolius* var. *elatior* Vatke, *Linnaea* 37: 322. 1872. Type: Ethiopia, Tigray, NNW of Axum, Bellitschen, 8 Sept. 1862, Schimper 378 (syntype: BM, JE).

*Coleus micranthus* Maxim., *Trudy Imp. S.-Peterburgsk. Bot. Sada* 3(1): 108. 1875. Type: seed from Ethiopia, 1872, Schimper (holotype: LE).

*Plectranthus cymosus* Baker, *J. Linn. Soc., Bot.* 21: 434. 1885.

*Solenostemon cymosus* (Baker) Guillaumet & A.Cornet, *Adansonia*, n.s., 15: 524. 1976., nom. illeg. Type: Central Madagascar, Baron 2250 (holotype: K; isotype: P).

*Coleus bernieri* Briq., *Bull. Herb. Boissier* 2: 128. 1894.

*Solenostemon bernieri* (Briq.) Guillaumet & A.Cornet, *Adansonia*, n.s., 15: 525. 1976.

*Calchas bernieri* (Briq.) P.V.Heath, *Calyx* 5: 160. 1997. Type: Madagascar, North of Madagascar, Bernier 147 (holotype: G).

*Coleus gracilifolius* Briq., *Bull. Herb. Boissier* 2: 127. 1894.

*Solenostemon gracilifolius* (Briq.) Guillaumet & A.Cornet, *Adansonia*, n.s., 15: 525. 1976. Type: Madagascar, Fito (Ambanivoulu), Goudot s.n. 1832 (holotype: G).

*Coleus schweinfurthii* Briq., *Bot. Jahrb. Syst.* 19: 181. 1894., nom. illeg., non *C. schweinfurthii* Vatke.

*Coleus briquetii* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 441. 1900., nom. superfl.

- Calchas briquetii* (Baker) P.V.Heath, *Calyx* 5: 160. 1997. nom. illeg.
- Plectranthus bongensis* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 410. 1900.  
Type: Sudan, Bongo, Jur (Gir), Schweinfurth 2490 (holotype: K; isotype: PRE).
- Coleus dewevrei* Briq., *Bull. Soc. Roy. Bot. Belgique* 37: 71. 1899.
- Calchas dewevrei* (Briq.) P.V.Heath, *Calyx* 6: 51. 1999. Type: DRC, Dewèvre 1092a (holotype: BR).
- Coleus latifolius* var. *mediensis* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 437. 1900. Type: Uganda, West Nile District: Madi, Grant in Speke & Grant s.n. (holotype: K).
- Coleus heterotrichus* Briq., *Bull. Soc. Roy. Bot. Belgique* 40: 40. 1901. Type: DRC, Bolobo, Demeuse 1155 (holotype: G; isotype: Z).
- Coleus copiosiflorus* Briq., *Mém. Soc. Bot. France* 8: 288. 1917.
- Calchas copiosiflorus* (Briq.) P.V.Heath, *Calyx* 5: 160. 1997. Types: Republic Central Africa, Haute Ombella, Kaga Do, 26 Oct. 1902, A. Chevalier 5967 (syntype: P); Mali, Koulikoro, 6–14 Oct. 1899, A. Chevalier s.n. (syntype, P).
- Coleus phymatodes* Briq., *Mém. Soc. Bot. France* 8: 289. 1917. Type: Mali, Koulikoro, 6–14 Oct 1899, A. Chevalier s.n. (holotype, P).
- Coleus claessensii* De Wild., *Bol. Soc. Ibér. Ci. Nat.* 19: 117. 1920.
- Calchas claessensii* (De Wild.) P.V.Heath, *Calyx* 5: 160. 1997. Types: DRC, Mobwassa, Claessens 741 (syntype: BR) & Ekuta on the Lua, Sapin s.n. (syntype: BR).
- Coleus homblei* De Wild., *Contr. Fl. Katanga*: 174. 1921. Types: DRC, Lubumbashi (Elisabethville), Homblé 210 (syntype: BR) & Tshisinka, Homblé 1259 (syntype: BR.).
- Coleus ringoetii* De Wild., *Contr. Fl. Katanga*: 174. 1921. Type: DRC, Shinsenda, Ringoet 546 (holotype: BR).
- Coleus termetophilus* De Wild., *Contr. Fl. Katanga*: 175. 1921. Type: DRC, Lubumbashi (Elisabethville), Homblé 220 (holotype: BR; isotype: Z).
- Coleus platostomoides* Robyns & Lebrun, *Rev. Zool. Bot. Africaines* 16: 362. 1928.
- Solenostemon platostomoides* (Robyns & Lebrun) Troupin, *Bull. Jard. Bot. Natl. Belg.* 55: 299. 1985.
- Calchas platostomoides* (Robyns & Lebrun) P.V.Heath, *Calyx* 6: 51. 1999. Type: DRC, Lake Kivu, Saké Bay, Kuteruzi, Robyns 2482 (holotype: BR; isotype: K).
- Coleus quarrei* Robyns & Lebrun, *Rev. Zool. Bot. Africaines* 16: 3. 1928. Type: DRC, Lubumbashi (Elisabethville), Kibembe Farm, Quarré 608 (holotype: BR).
- Coleus collinus* Lebrun & L.Touss., *Bull. Jard. Bot. État Bruxelles* 17: 81. 1943.
- Solenostemon collinus* (Lebrun & L.Touss.) Troupin, *Bull. Jard. Bot. Natl. Belg.* 55: 299. 1985.
- Calchas collinus* (Lebrun & L.Touss.) P.V.Heath, *Calyx* 5: 160. 1997. Type: Congo, Kivu, Rutshuru, Nov. 1937, Lebrun 8232 (holotype: BR).

**Distribution.** Eastern, Central & Southern Africa, Madagascar.



***Coleus botryosus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201028-1

*Plectranthus botryosus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 335. 2009. Type: Tanzania, Songea District: just E of R. Gembabili  $\pm$  3 km SW of Kitai, Milne-Redhead & Taylor 9735 (holotype:K, sheet 2; isotypes EA, K sheet 1).

**Distribution.** S. Tanzania.

***Coleus bourneae* (Gamble) Smitha & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201029-1

*Plectranthus bourneae* Gamble, Bull. Misc. Inform. Kew 1924: 264. 1924. Type: India. Tamil Nadu: Pulneys, Coelogyne rock, Poombarai road 16 May 1901, A.G. Bourne & E.G. Bourne 2028 (lectotype: K, designated by Smitha and Sunojkumar 2018).

**Distribution.** S. India.

***Coleus bracteatus* Dunn, Notes Roy. Bot. Gard. Edinburgh 8: 158. 1913**

Fig. 4D

*Plectranthus bracteatus* (Dunn) Suddee, Kew Bull. 59: 399. 2004. Type: China, Yunnan, Puerh, 1350 m, Henry 13498 (lectotype: K, designated by Suddee et al. 2004; isotype: NY).

*Plectranthus saphinensis* Phuong, Bot. Zhurn. (Moscow & Leningrad) 67: 1131. 1982. Type: Vietnam, Sa Phin, Prov. Ha Tuyen, 15 Sept. 1977, Phuong 294B (holotype: HN; isotype: HN).

**Distribution.** China: Yunnan to Indo-China.

***Coleus brazzavillensis* A.Chev., Veg. Ut. Afr. Trop. Franç. 1: 124. 1905**

*Coleus brazzavillensis* A.Chev., Veg. Ut. Afr. Trop. Franç. 1: 124. 1905. Type: Congo, Brazzaville, Mission du Chari-Lac Chad, Chevalier 11154 (holotype: P).

**Distribution.** Republic of Congo (Brazzaville).

***Coleus buchananii* (Baker) Brenan, Mem. New York Bot. Gard. 9: 43. 1954**

*Plectranthus buchananii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 402.

1900. Type: Malawi, Shire Highlands, Nakajumbu, Buchanan 365 (holotype: K).

*Coleus scaposus* C.H.Wright, Bull. Misc. Inform. Kew 1906: 167. 1906. Type: Malawi, Namasi, Cameron 60 (holotype: K).

*Coleus hockii* De Wild., Repert. Spec. Nov. Regni Veg. 11: 514. 1913. Type: DRC, Upper Katanga, valley of small Luembe, Hock s.n. (holotype: BR).

**Distribution.** Tanzania to S. Trop. Africa.

***Coleus burorum* Chiov., Fl. Somalia 1: 278. 1929**

*Plectranthus burorum* (Chiov.) J.K.Morton, Novon 8: 265. 1998. Type: Somalia, Somalia Meridionale: Boscaglia di Bur Budulca, 16 Mar.1924, N.Puccioni & G. Stefanini 287 (323) (holotype: FT).

*Coleus cicatricosus* Hutch. & E.A.Bruce, Bull. Misc. Inform. Kew 1941: 180. 1941.

*Plectranthus cicatricosus* (Hutch. & E.A.Bruce) J.R.I.Wood, Handb. Yemen Fl.: 249. 1997. Type: Somalia, Buramo, 29 Jan. 1933, J.B.Gillett 4880 (holotype: K; isotype: FT).

**Distribution.** Ethiopia to Somalia, Yemen.

***Coleus caillei* A.Chev. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 291. 1931**

*Leocus caillei* (A.Chev. ex Hutch. & Dalziel) J.K.Morton, J. Linn. Soc., Bot. 58: 270. 1962. *Plectranthus caillei* (A.Chev. ex Hutch. & Dalziel) B.J.Pollard, Kew Bull. 64: 260. 2009. Type: Guinea, Longuery, Caille in Herb Chevalier 14684 (holotype: P).

**Distribution.** W. Trop. Africa to Cameroon.

***Coleus calaminthoides* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201030-1

*Solenostemon calaminthoides* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 421. 1900. Type: Gabon, Gabon River, Mann (holotype, K).

**Distribution.** Cameroon, Gabon, DRC.



***Coleus calcicola* Murata, Acta Phytotax. Geobot. 24: 105. 1970**

*Plectranthus chiangdaoensis* Suddee, Kew Bull. 59: 404. 2004., non *Plectranthus calcicola* Hand.-Mazz. Type: Thailand, Chiang Mai, Doi Chiang Dao, 1500 m, 15 Sept. 1967, Shimizu & Hutoh T-10153 (holotype: KYO; isotype: BKF, KYO, TI).

**Distribution.** N. Thailand (Doi Chiang Dao).

***Coleus caldericola* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201031-1

*Plectranthus caldericola* P.I.Forst., Austrobaileya 8: 392. 2011. Type: Australia, New South Wales, The Pinnacle, 13 km W of Mt. Warning, 6 Apr. 1994, P.I. Forster & G. Leiper PIF15093 (holotype: BRI; isotypes: MEL, NSW).

**Distribution.** Australia: New South Wales.

***Coleus calycinus* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201032-1

*Plectranthus calycinus* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 230. 1838.

*Rabdosia calycina* (Benth.) Codd, Bothalia 11: 117. 1973.

*Rabdosiella calycina* (Benth.) Codd, Bothalia 15: 10. 1984.

*Isodon calycinus* (Benth.) H.W.Li, J. Arnold Arbor. 69: 293. 1988. Type: South Africa, Eastern Cape, between St Johns and Umsikaba rivers, 1837, Drège 3584 (lectotype: K designated by Codd (1975); isolectotypes: MO, P).

*Plectranthus pyramidatus* Gürke, Bull. Herb. Boissier 6: 552. 1898. Type: South Africa, Mpumalanga, Houtbosch, s.d., Rehmann 6179 (holotype: Z).

*Plectranthus pachystachyus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1003. 1903.

*Plectranthus calycinus* var. *pachystachyus* (Briq.) T.Cooke in W.H.Harvey & auct. suc. (eds.), Fl. Cap. 5(1): 271. 1910. Type: South Africa, KwaZulu-Natal, Umkomaas, iii.1892, Medley Wood 4621 (holotype: G; isotype: K).

**Distribution.** S. Mozambique to South Africa.

***Coleus cambodianus* (Murata) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201033-1

*Anisochilus cambodianus* Murata, Acta Phytotax. Geobot. 28: 26. 1977. Type: Cambodia, Kampot Province, Poporkvil, c. 1000 m alt, 4 Dec. 1964, Kira, Hozumi, Yoda & Kokawa 292 (holotype: KYO).

**Distribution.** SE. Thailand to Cambodia.

***Coleus caninus* (Roth) Vatke, *Linnaea* 37: 318. 1872**

*Plectranthus caninus* Roth, Nov. Pl. Sp.: 279. 1821.

*Majana canina* (Roth) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: India, Heyne s.n. in Wallich Cat. 2729C (holotype: B, destroyed; isotypes: BM, K(000820142), K-W (K001116966), P).

**Distribution.** Eritrea to South Africa, India to Myanmar.

***Coleus caninus* subsp. *caninus***

*Plectranthus caninus* subsp. *caninus*, A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 345. 2009. Type: as above.

*Ocimum monadelphum* R.Br. ex Roth, Nov. Pl. Sp.: 267. 1821.

*Coleus heynei* Benth., Labiat. Gen. Spec.: 50. 1832. Type: India, Heyne s.n. (holotype: B, destroyed; neotype: India, Herb. Ham. in Wall. Cat. 2729B (neotype: K-W (K001116965), designated by Paton et al. 2009; isoneotype: K).

*Coleus spicatus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 15. 1830.

*Majana spicata* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: India, Herb. Wight in Wall. Cat. 2729A (syntypes: BM, K (K000820139), K (K000820141), K-W(K001116964), G-DC).

*Plectranthus monadelphus* Roxb., Fl. Ind. ed. 1832, 3: 22. 1832. Type: Roxburgh's illustration No. 1459 (lectotype: K, designated by Suddee et al. 2004).

*Coleus spicatus* var. *rondinella* Spreng., Gartenflora 45: 358. fig. 62. 1896. Type: cultivated, material from Eritrea, illustration cited above (lectotype: illustration designated by Paton et al. 2009).

*Coleus pachyphyllus* Gürke, Bot. Jahrb. Syst. 38: 168. 1906. Types: Ethiopia, Galla Highlands, Ginea, Ellenbeck 1951 (syntype: B, destroyed) & Korkora in Borana, Ellenbeck 2233 (syntype: B, destroyed); neotype: Somalia, Juba R. north of Gelib, Mooney 7672 (neotype: K, designated by Ryding (2000)).

**Distribution.** Eritrea to N. Tanzania, India to Myanmar.

***Coleus caninus* subsp. *flavovirens* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201034-1

*Coleus flavovirens* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 347. 1895.



*Plectranthus caninus* subsp. *flavovirens* (Gürke) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 345. 2009. Type: Tanzania, Lake Chala (Dschallasee), 1893, Volkens 1771 (holotype: B destroyed; isotype: BR).

*Coleus omahekensis* Dinter, Repert. Spec. Nov. Regni Veg. Beih. 53: 123. 1928. Type: Namibia, Etemba and Otjikuara, Dinter 3265, two localities same number (syntypes: not seen.).

**Distribution.** Ethiopia to South Africa.

***Coleus capitatus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201035-1

*Pycnostachys parvifolia* Baker, Bull. Misc. Inform. Kew 1895: 72. 1895., non *Coleus parviflorus* Benth. Type: Zambia, Northern Province, Fwambo, Carson 103 (lectotype: K), designated by Bruce (1940).

**Distribution.** W. & S. Tanzania to Zambia.

***Coleus carnosifolius* (Hemsl.) Dunn, Notes Roy. Bot. Gard. Edinburgh 8: 158. 1913**

*Plectranthus carnosifolius* Hemsl., J. Linn. Soc., Bot. 26: 270. 1890. Type: China, Guangdong Prov., Aug. 1887, C. Ford 107 (holotype: K).

**Distribution.** SE. China.

***Coleus cataractarum* (B.J.Pollard) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201036-1

*Plectranthus cataractarum* B.J.Pollard, Kew Bull. 56: 976. 2001. Type: Mt Cameroon, 25 Nov. 1993, Cheek 5563 (holotype: K; isotypes MA, MO, SCA, WAG, YA).

**Distribution.** Bioko, Cameroon.

***Coleus caudatus* (S.Moore) E.Downes & I.Darbysh. Blumea 62: 172. 2017**

*Plectranthus caudatus* S.Moore, J. Linn. Soc., Bot. 40: 176. 1911. Type: Zimbabwe, Chimanimani, 26 Nov. 1906, Swynnerton 2010 (holotype: BM; isotype: K).

**Distribution.** Mozambique and Zimbabwe.

***Coleus celsus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201037-1

*Solenostemon robustus* Hiern, Cat. Afr. Pl. 1: 864. 1900., non *Coleus robustus* (Hook.f.) A.J.Paton.

*Holostylon robustum* (Hiern) G.Taylor, J. Bot. 69(suppl. 2): 161. 1931.

*Plectranthus robustus* (Hiern) A.J.Paton in Fl. Zambesiaca 8,8: 234. 2013. Type: Angola, Pungo Andongo, from Lombe to Condo, March 1857, Welwitsch 5538 (holotype: LISU; isotypes: BM, G).

**Distribution.** Angola.

***Coleus centraliafricanus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201038-1

*Pycnostachys chevalieri* Briq., Mém. Soc. Bot. France 8: 193. 1912., non *Coleus chevalieri* Briq. Type: Central African Republic, Dar Banda du Kaga Djé au Kaga Pongouru, A.Chevalier 6561 (holotype: P).

**Distribution.** Central African Republic.

***Coleus chevalieri* Briq., Mém. Soc. Bot. France 8: 287. 1917**

*Coleus chevalieri* Briq., Mém. Soc. Bot. France 8: 287. 1917. Type: Central African Republic, Krebedjén (Fort Sibut), vallée de la moyenne Tomi, 8 Oct.1902, Chevalier 5662 (holotype: P).

**Distribution.** Central African Republic.

***Coleus ciliatus* (Bramley) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201039-1

*Pycnostachys ciliata* Bramley, Kew Bull. 60: 587. 2005 publ. 2006. Type: Tanzania, Mbeya Dist., Songwe Valley, c. 2 km N of Mbeya–Tunduma road, fl. 25 Mar, 1988, Bidgood, Mwasumbi & Vollesen 693 (holotype: K; isotypes: C, DSM, NHT).

**Distribution.** Tanzania to S. Trop. Africa.



***Coleus circinnatus* (Hedge) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201041-1

*Plectranthus circinnatus* Hedge, Fl. Madag. 175: 228. 1998. Type: Madagascar, Prov. de Fianarantsoa, Massive d'Itremo, sur RN 35, 42 Km W. of Ambatofinandrahana, Clement, Phillipson & Rafamantanantsoa 2045 (holotype: E; isotypes MO, P).

**Distribution.** Madagascar.

***Coleus coeruleus* Gürke, Bot. Jahrb. Syst. 19: 217. 1894**

*Calchas coeruleus* (Gürke) P.V.Heath, Calyx 5: 160. 1997.

*Plectranthus coeruleus* (Gürke) Agnew, Upland Kenya Wild Fl.: 638. 1974. Type: Tanzania, Lushoto District: Kwa Mshusa, Holst 8895 (holotype: B, destroyed; isotypes: G, K, Z).

**Distribution.** Kenya to N. Malawi.

***Coleus comosus* Hochst. ex Gürke, Bot. Jahrb. Syst. 19: 212. 1894**

*Plectranthus ornatus* Codd, Bothalia 11: 393. 1975., non *Plectranthus comosus* Sims. Type: Ethiopia, Dschenausa, 1 June 1840, Schimper 1328 (holotype: B, destroyed; isotypes: BM, FI, G, P).

**Distribution.** NE and E. Africa, naturalized in South Africa.

***Coleus confertiflorus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201042-1

*Plectranthus confertiflorus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 303. 2009. Type: Tanzania, Pare District: Mkomazi Game Reserve, Kisima Hill, Abdallah, Mboya & Vollesen 96/129 (holotype: K; isotypes: C, NHT, P).

**Distribution.** N. Tanzania.

***Coleus congensis* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201043-1

*Pycnostachys congensis* Gürke, Bull. Herb. Boissier 4: 819. 1896. Types: DRC, Samba, Deschamps 28 (syntype: B); Lusambo (syntype: B).

**Distribution.** DRC, Zambia.

***Coleus congestus* (R.Br.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201044-1

*Plectranthus congestus* R.Br., Prodr. Fl. Nov. Holl.: 506. 1810. Type: Australia, Queensland, Endeavour River, 1770, Banks & Solander (holotype: BM).

**Distribution.** N. Australia, Lesser Sunda Is., New Guinea.

***Coleus conglomeratus* (T.C.E.Fr.) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 105. 1929**

*Englerastrum conglomeratum* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 72. 1924.

*Plectranthus conglomeratus* (T.C.E.Fr.) Hutch. & Dandy, Bull. Misc. Inform. Kew 1926:481. 1926. Type: Togo (Benin), Sokode, Kersting 93 (holotype: B, destroyed; fragment K).

*Plectranthus harrisii* J.K.Morton, J. Linn. Soc., Bot. 58: 267. 1962. Type: Ghana, between Toga Mt. and Maliato, Togo Plateau, 24 Dec. 1959, J.K.Morton A3830 (holotype: GC; isotypes: K, WAG). *synon. nov.*

**Distribution.** Tropical West Africa.

***Coleus crassus* (N.E.Br.) Culham, comb. nov.**

urn:lsid:ipni.org:names:77201045-1

*Plectranthus crassus* N.E.Br., Gard. Chron., ser. 3, 35: 21. 1904. Type: Plant cultivated at Kew in 1899 from material collected by Mahon 393 (holotype: K).

**Distribution.** Malawi (Mt. Mulanje).

***Coleus cremnus* (B.J.Conn) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201046-1

*Plectranthus cremnus* B.J.Conn, Telopea 4: 643. 1992. Type: Australia, New South Wales, Sawtell, 20 Feb. 1990, B.J. Conn 3478 (holotype: NSW; isotype: MEL).

**Distribution.** Australia, New South Wales.



***Coleus cucullatus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201047-1

*Plectranthus cucullatus* A.J.Paton – Fl. Zambes. 8(8): 261. 2013. Type: Mozambique, Ribáuè Dist., Ribáuè mountains, Oct. 1931, Gomes & Sousa 754 (holotype: K).

**Distribution.** Mozambique.

***Coleus cuneatus* Baker f., J. Bot. 1899: 64. 1899**

*Plectranthus cuneatus* (Baker f.) Ryding, Kew Bull. 54: 124. 1999. Type: Somalia, Woqooyi Galbeed/ Togdher Regions, Wagga Mt, Lort-Phillips s.n. (holotype: BM).

**Distribution.** S. Djibouti to N. Somalia.

***Coleus cyanophyllus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201048-1

*Plectranthus cyanophyllus* P.I.Forst., Austrobaileya 4: 166. 1994. Type: Australia, Queensland, North Kennedy District. Mt Abbot, 50 km W of Bowen, 27 Oct. 1992, A.R.Bean 5188 (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland.

***Coleus cylindraceus* (Hochst. ex Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201050-1

*Plectranthus cylindraceus* Hochst. ex Benth. in A.P.de Candolle, Prodr. 12: 60. 1848.

*Germanea cylindracea* (Hochst. ex Benth.) Hiern, Cat. Afr. Pl. 1: 861. 1900.

*Burnatastrum cylindraceum* (Hochst. ex Benth.) P.V.Heath, Calyx 4: 175. 2001. Type: Ethiopia, near Gapdia, 29 Nov.1838, Schimper 1113 (holotype: K; isotypes: BM, G, P,W).

*Plectranthus montanus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 17. 1830., non *Coleus montanus* Hochst. ex Ces. Type: India, Deccan Peninsula, exact locality unknown (“Peninsula India Orientalis”), Herb. Wight in Wall. Cat. 2747B (lectotype: K ((K000820120), designated by Suddee et al. (2004); isolectotype: K-W (K001117007).

*Plectranthus marrubiioides* Hochst. ex Benth. in A.P.de Candolle, Prodr. 12: 60. 1848. Type: Ethiopia, near Jaja (Dschainscha), Jan. 1844, Schimper 1925 (holotype: K; isotypes: BM,G, K, P, W).

*Geniosporum lasiostachyum* Briq., Bot. Jahrb. Syst. 19: 164. 1894. Type: Angola, Huíla, Mar. 1879, Welwitsch 5489 (syntypes: K, BM, LISC).

*Plectranthus fischeri* Gürke, Bot. Jahrb. Syst. 19: 200. 1894. Types: Tanzania, Kilimanjaro (Kilimandcharo), Ugweno, Volken 518 (syntype: B, destroyed); Masai Highlands (Massaihochland), Fischer ser.1 77 (syntype: B, destroyed; isosyntype: HBG) & Fischer ser.2 501 (syntype: B, destroyed).

*Plectranthus moschosmoides* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 414. 1900. Type: Angola, Huíla, Mar.1879, Welwitsch 5489 (holotype: BM; isotypes: K, LISC).

*Geniosporum fissum* S.Moore, J. Bot. 39: 263. 1901. Type: Kenya, Northern Frontier District: Dadaro, 1110 m, Delamere s.n. (holotype: BM).

*Plectranthus densiflorus* T.Cooke, Bull. Misc. Inform. Kew 1909: 378. 1909. Type: South Africa, KwaZulu-Natal, near the Mooi R., Medley-Wood 4475 (holotype: K; isotypes: GRA, NH, SAM).

*Plectranthus villosus* T.Cooke, Bull. Misc. Inform. Kew 1909: 378. 1909. Type: South Africa, KwaZulu-Natal, Entumeni, Medley-Wood 3955 (holotype: K; isotype NH).

*Plectranthus glomeratus* R.A.Dyer, Fl. Pl. South Africa 24: t. 946. 1944. nom. superfl. Based on the above.

*Plectranthus spiciformis* R.A.Dyer, Fl. Pl. South Africa 24: t. 946. 1944. Type: South Africa, Gauteng, Hammanskraal, Mogg 27138 (holotype: PRE).

*Coleus subbaraoi* Kumari & Malathi, Fl. Visakhapatnam Distr. 2: 68. 2008. Type: India, Andhra Pradesh, Visakhapatnam District, Kappakonda, Subba Rao 29637 (holotype: CAL; isotype: MH).

**Distribution.** Trop. & South Africa, Arabian Peninsula, S. India

***Coleus daviesii* E.A.Bruce, Bull. Misc. Inform. Kew 1933: 477. 1933**

*Plectranthus daviesii* (E.A.Bruce) B.Mathew, Kew Bull. 31: 174. 1976. Type: Tanzania, Rungwe, R.M. Davies R4 (holotype: K; isotype: SRGH).

**Distribution.** SW. Tanzania to N. Malawi.

***Coleus decimus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201051-1

*Plectranthus decimus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 324. 2009. Type: Zambia, Mbala (Abercorn) District: Kawimbe, Richards 7288 (holotype: K).

**Distribution.** W. Tanzania, Zambia to Angola.



***Coleus decurrens* Gürke, Bot. Jahrb. Syst. 19: 215. 1894**

*Plectranthus decurrens* (Gürke) J.K.Morton, J. Linn. Soc., Bot. 58: 267. 1962. Type: Cameroon, Buea, Preuss 948 (holotype: B, destroyed; isotypes: COI, HBG).

*Coleus elatus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 427. 1900. Types: Bioko (Fernando Po), Mann 584 (syntype: K); Gabon, Crystal Mts, Mann s.n. 1661 (synype: K).

*Coleus toroensis* S.Moore, J. Bot. 45: 95. 1907. Type: Uganda, Toro District: Dura (Durro) R., Bagshawe 1043 (holotype: BM).

*Coleus variifolius* De Wild., Bol. Soc. Ibér. Ci. Nat. 19: 124. 1920. Type: DRC, between Buta and Bima, Seret 96 (lectotype: BR, designated by Paton et al. 2009).

**Distribution.** Nigeria to Uganda and Angola.

***Coleus deflexifolius* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201052-1

*Pycnostachys deflexifolia* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 381. 1900. Type: Kenya, Naivasha District: near Lake Elmenteita, Scott Elliot 6756 (holotype: K).

**Distribution.** E. Trop. Africa.

***Coleus defoliatus* (Hochst. ex Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201053-1

*Plectranthus defoliatus* Hochst. ex Benth. in A.P.de Candolle, Prodr. 12: 60. 1848.

*Isodictyophorus defoliatus* (Hochst. ex Benth.) Agnew, Upland Kenya Wild Fl.: 640. 1974. Type: Ethiopia, Jomara (Dschomara), 26 Dec. 1839, Schimper 847 (holotype: K; isotypes BR, FI, G, MPU, TUB, P, W).

*Coleus floribundus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 438. 1900. Type: Ethiopia, 1 Jan. 1853, Schimper 21 (holotype: K; isotype: BR, G).

**Distribution.** Eritrea to S. Trop. Africa.

***Coleus densus* (N.E.Br.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201054-1

*Plectranthus densus* N.E.Br., Bull. Misc. Inform. Kew 1894: 12. 1894. Type: Tanzania, N of Lake Malawi (Nyassa), Thomson s.n. (holotype: K).

*Plectranthus primulinus* Baker, Bull. Misc. Inform. Kew 1895: 292. 1895.

*Coleus primulinus* (Baker) A.Chev., Rev. Int. Bot. Appl. Agric. Trop. 33: 340. 1953.

Type: Zambia, Mwero Plateau, 1894, Carson 36 (holotype: K).

**Distribution.** SW. Tanzania to S. Trop. Africa.

***Coleus descampsii* (Briq.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201055-1

*Pycnostachys descampsii* Briq., Bull. Soc. Roy. Bot. Belgique 37: 63. 1899. Type: DRC, Katanga, Lufonzo (Lufogo) R., Mar. 1896, Descamps s.n. (holotype: BR).

*Pycnostachys linifolia* Gürke, Bot. Jahrb. Syst. 30: 397. 1901. Type: Tanzania, Njombe District: Ubena, near Liangira, Goetze 798 (holotype: B, destroyed; isotypes: BR, K, fragment).

*Pycnostachys lavanduloides* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 68. 1921. Type: Tanzania, Iringa District, Uhehe, Udzungwa Mts (Utschungwe-Berge), 1600 m, Prince 28a (holotype: B, destroyed).

*Pycnostachys pallide-caerulea* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 67. 1921. Type: Cameroon, Kumbo, Mt Bansso, Oct. 1909, Ledermann 5738 (holotype: B, destroyed, fragment K).

**Distribution.** Cameroon to W. Tanzania.

***Coleus dewildemanianus* (Robyns & Lebrun) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201057-1

*Pycnostachys dewildemaniana* Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 352. 1928. Type: DRC, Katanga, Munama, Quarré 1143 (holotype: BR; isotype: K).

**Distribution.** Tanzania to S. Trop. Africa.

***Coleus dichotomus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201058-1

*Plectranthus dichotomus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 317. 2009. Type: Tanzania, Kilosa District: Ukaguru, Mamiwa Forest Reserve, E of Ikwamba peak, Maberley 1465 (holotype: K).

**Distribution.** Tanzania (Ukaguru Mts.).



***Coleus dinteri* (Briq.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201059-1

*Plectranthus dinteri* Briq., Bull. Herb. Boissier, sér. 2, 3: 1070. 1903. Type: Namibia, Waterberg, Dinter 336 (holotype: Z).

**Distribution.** Namibia, South Africa: Limpopo (W. Waterberg).

***Coleus dissitiflorus* Gürke, Bot. Jahrb. Syst. 19: 217. 1894**

*Plectranthus dissitiflorus* (Gürke) J.K.Morton, J. Linn. Soc., Bot. 58: 267. 1962. Type: Cameroon, between Buea and Mimbia, 9 Oct. 1891, Preuss 1055 (holotype: B, destroyed; isotype: COI).

**Distribution.** WC. Trop. Africa.

***Coleus divaricatus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201060-1

*Anisochilus paniculatus* Benth. in A.P.de Candolle, Prodr. 12: 82. 1848, non *Coleus paniculatus* Benth. Type: Sri Lanka, unknown locality, Walker 52 (holotype: K).

**Distribution.** S. India.

***Coleus diversus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201061-1

*Plectranthus diversus* S.T.Blake, Contr. Queensland Herb. 9: 20. 1971. Type: Australia, Queensland, Spring Creek near Bowen (cultivated at The Gap), Brisbane., Oct. 1963, S.T.Blake 22128 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus dolichopodus* (Briq.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201062-1

*Plectranthus dolichopodus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1069. 1903. Type: South Africa, KwaZulu-Natal, Karkloof, n.d., Rehmann 7383 (holotype: Z).

**Distribution.** Malawi to South Africa.

***Coleus dumicola* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201063-1

*Plectranthus dumicola* P.I.Forst., *Austrobaileya* 4: 168. 1994. Type: Australia, Queensland, Cook District, 31 km along road to Leo Creek Mine, McIlwraith Range, 8 June 1992, P.I.Forster PIF10268 & M.C.Tucker & G. Kenning (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland.

***Coleus dysophylloides* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201064-1

*Anisochilus dysophylloides* Benth. in N.Wallich, *Pl. Asiat. Rar.* 2: 19. 1830. Type: India, Madras, Nilghiri Hills, Herb. Wight in Wall. Cat. 2756 (lectotype: K ((K000674673)); isolectotypes: E, G-DC, K-W(K001117033), designated Suddee and Paton 2009).

*Anisochilus sericeus* Benth. in A.P.de Candolle, *Prodr.* 12: 82. 1848. Type: India, Decan Peninsula, Courtallum, Herb. Wight 2515 (holotype: K: (K000674767)); isotype K (K000674768).

*Anisochilus albidus* Wight, *Icon. Pl. Ind. Orient.* 4: t. 1436. 1849. Type: Madras, Nilghiri Hills, About Coonoor and Kaitie, ex Herb. Wight, Wight Ic. t. 1436 (holotype: K (K000674776)).

*Anisochilus purpureus* Wight, *Icon. Pl. Ind. Orient.* 4: t. 1435. 1849.

*Anisochilus dysophylloides* var. *purpureus* (Wight) Gamble, *Fl. Madras* 2: 1128. 1924. Type: Madras, Nilghiri Hills, About Coonoor, Ex Herb. Wight Propr., Wight Ic. t. 1435 (holotype: K (K000674774)).

**Distribution.** SW. India (Shervarayan Hills).

***Coleus efolius* De Wild., Contr. Fl. Katanga: 173. 1921**

*Plectranthus efolius* (De Wild.) A.J.Paton, *Fl. Trop. E. Afr., Lamiac.*: 289. 2009. Type: DRC, Welgelegen, Bequaert 486 (lectotype: BR, designated by Paton et al. (2009)).

*Plectranthus leviculus* N.E.Br., *Bull. Misc. Inform. Kew* 1921: 296. 1921. Type: DRC, Lubumbashi (Elisabethville), F.A. Rogers 26211 (holotype: K).

*Englerastrum hjalmarii* T.C.E.Fr., *Notizbl. Bot. Gart. Berlin-Dahlem* 9: 71. 1924.

*Plectranthus hjalmarii* (T.C.E.Fr.) Hutch. & Dandy, *Bull. Misc. Inform. Kew* 1926: 481. 1926.

*Coleus hjalmarii* (T.C.E.Fr.) Robyns & Lebrun, *Ann. Soc. Sci. Bruxelles, Sér. B* 49: 106. 1929. Type: Tanzania, Rungwe District: Kyimbila, Stoltz 926 (holotype: B, destroyed; isotypes: G, K, W).



*Englerastrum kassneri* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 70. 1924.

*Plectranthus kassneri* (T.C.E.Fr.) Hutch. & Dandy, Bull. Misc. Inform. Kew 1926: 481. 1926.

*Coleus kassneri* (T.C.E.Fr.) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929. Type: DRC, Mt Morumbe, Kassner 2951 (holotype: B, destroyed; isotypes: BM, K).

**Distribution.** Rwanda to S. Trop. Africa.

***Coleus elliotii* (S.Moore) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201065-1

*Pycnostachys elliotii* S.Moore, J. Linn. Soc., Bot. 38: 275. 1908. Type: Uganda, Ruwenzori E, 2750 m, 10 Feb. 1906, Wollaston s.n. (holotype: BM).

*Pycnostachys mildbraedii* Perkins in G.W.J.Mildbraed (ed.), Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 548. 1913. Type: Uganda, Toro District/DRC, Ruwenzori, Butahu (Butagu) Valley, Friedrich 2537 (holotype: B, destroyed).

*Pycnostachys cinerascens* Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 352. 1928.

*Pycnostachys bequaertii* De Wild., Pl. Bequaert. 4: 393. 1928., nom. illeg., non *Pycnostachys bequaertii* De Wild. (1921). Type: DRC, Ruwenzori Lamia Valley, Bequaert 4287 (holotype: BR).

*Pycnostachys butaguensis* De Wild., Pl. Bequaert. 4: 389. 1928. Type: DRC, Ruwenzori, Butahu (Butagu) Valley, Bequaert 3715 (holotype: BR).

**Distribution.** DRC to Uganda (Ruwenzori Mts.).

***Coleus elongatus* Trimen, J. Bot. 27: 165. 1889**

*Englerastrum elongatum* (Trimen) Alston, Bull. Misc. Inform. Kew 1926: 298. 1926.

*Plectranthus elongatus* (Trimen) R.H.Willemse, Blumea 25: 510. 1979. Type: Sri Lanka, Ritgala, July 1887, Trimen s.n. (holotype: PDA; isotype: K).

**Distribution.** Sri Lanka.

***Coleus eminii* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201066-1

*Pycnostachys eminii* Gürke, Bot. Jahrb. Syst. 22: 145. 1895. Type: Tanzania, Kanessa, west of Lake Victoria, Kanessa, 14 Nov. 1890, Stuhlmann 943 (lectotype: B, destroyed, designated by Bruce (1940)).

*Pycnostachys ruwenzoriensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 384. 1900. Type: Uganda, Ruwenzori, Scott Elliot 7621 (holotype: K).

*Pycnostachys rotundatodentata* De Wild., Pl. Bequaert. 4: 391. 1928. Type: DRC, Ruwenzori, Kisuki, Bequaert 4701 (lectotype: BR, designated by Bramley in Paton et al. (2009)).

**Distribution.** Cameroon to Ethiopia and NW. Tanzania.

***Coleus engleri* (Briq.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201067-1

*Anisochilus engleri* Briq., Bot. Jahrb. Syst. 19: 190. 1894. Type: DRC, between Nyangwe and Kibundo, Pogge 1019 (lectotype: K, designated by Paton et al. (2009)).

*Anisochilus africanus* Baker, J. Linn. Soc., Bot. 30: 94. 1894., non *Coleus africanus* Benth.

*Briquetastrum africanum* (Baker) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 102. 1929.

*Coleus africanus* (Baker) Roberty, Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 16: 330. 1954. nom. illeg.

*Leocus africanus* (Baker) J.K.Morton, J. Linn. Soc., Bot. 58: 270. 1962.

*Plectranthus africanus* (Baker) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 308. 2009. Type: Sierra Leone, Freetown, Scott Elliot 5033 (holotype: K).

**Distribution.** W. Trop. Africa to Uganda and NE. Angola.

**Notes.** *Coleus africanus* Benth., Labiat. Gen. Spec.: 54. 1832., is superfluous being based on *Solenostemon ocymoides* Schumach. & Thonn. in C.F.Schumacher, Beskr. Guin. Pl.: 271 (1827).

***Coleus erici-rosenii* (R.E.Fr.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201068-1

*Pycnostachys erici-rosenii* R.E.Fr., Wiss. Erg. Schwed. Rhod.-Kongo Exped. 1: 281. 1916. Type: DRC, Ninagongo, 2000 m, R.E. Fries 1588 (holotype: UPS).

*Pycnostachys albidoviolacea* De Wild., Pl. Bequaert. 4: 400. 1928. Type: DRC, Kivu, Mukule, Bequaert 5889 (lectotype: BR, designated by Bramley in Paton et al. (2009)).

*Pycnostachys robynssii* De Wild., Pl. Bequaert. 4: 398. 1928. Type: DRC/Burundi, Busiga, Robyns 2356 (holotype: BR; isotype: K).

**Distribution.** E. DRC to Uganda.



***Coleus esculentus* (N.E.Br.) G.Taylor, J. Bot. 69 (suppl. 2): 158. 1931**

*Plectranthus esculentus* N.E.Br., Bull. Misc. Inform. Kew 1894: 12. 1894. Type: cultivated at K from material sent by J. Medley Wood from KwaZulu-Natal, 1893 (lectotype: K, designated by Codd (1975); isolectotype: BOL).

*Plectranthus floribundus* N.E.Br., Bull. Misc. Inform. Kew 1894: 12. 1894.

*Englerastrum floribundum* (N.E.Br.) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 73. 1924.

*Coleus floribundus* (N.E.Br.) Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 359. 1928. nom. illeg., non *C. floribundus* Baker. Type: South Africa, KwaZulu-Natal, Inanda, Medley Wood 646 (lectotype: K; isolectotype: PRE designated by Robyns & Lebrun (1928)).

*Plectranthus floribundus* var. *longipes* N.E.Br., Bull. Misc. Inform. Kew 1894: 13. 1894.

*Coleus floribundus* var. *longipes* (N.E.Br.) Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 360. 1928. Type: South Africa, valley of Umzingwani R., Baines s.n. (lectotype: K, designated by Robyns & Lebrun (1928)).

*Coleus coppinii* Heckel, Rev. Cultures Colon. 8: 166. 1900. Type and protologue not seen.

*Coleus dazo* A.Chev., Agric. Prat. Pays Chauds 4: 104. 1905. Type: tubers from Central African Republic, upper Oubangui, fragment at K sent from Oubangui, 1904 (syntype: K).

*Coleus langouassiensis* A.Chev., Veg. Ut. Afr. Trop. Franç. 1: 127. 1905. Type: not seen.

**Distribution.** Trop. & South Africa.

***Coleus eungellaensis* P.I.Forst. & A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201068-1

*Plectranthus graniticola* P.I.Forst., Austrobaileya 3: 732. 1992., non *C. graniticola* (A.Chev.) A.J.Paton. Type: Australia, Queensland, South Kennedy District, Clarke Range, Eungella National Park, 23 Apr. 1991, P.I.Forster PIF8056 & W.J.F. McDonald (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland.

***Coleus excelsus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201070-1

*Plectranthus excelsus* P.I.Forst., Austrobaileya 4: 172. 1994. Type: Australia, Queensland, Cook District, Garroway Hill, 11 July 1993, P.I.Forster PIF13543 & M.C.Tucker (holotype: BRI, isotypes: A, AD, CBG, CNS, K, L, MEL).

**Distribution.** Australia: Queensland.

***Coleus exilis* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201071-1

*Plectranthus exilis* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 350. 2009. Type: Tanzania, Njombe District: Ruhudje, Lupembe, Schlieben 185 (holotype, K; isotypes: B, K, LISC, MO, PRE).

**Distribution.** SW. Tanzania.

***Coleus fasciculatus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201072-1

*Plectranthus fasciculatus* P.I.Forst., Haseltonia 6: 14. 1998 publ. 1999. Type: Australia, Queensland, Cook District, Mt Windsor Tableland, State Forest 144, 24 July 1993, P.I.Forster PIF13709, G. Sankowsky & M.C. Tucker (holotype: BRI; isotype: CNS).

**Distribution.** Australia: Queensland.

***Coleus ferricola* Phillipson, O. Hooper & A.J. Paton, Kew. Bull. 74, 24: 4. 2019**

*Coleus ferricola* Phillipson, O. Hooper & A.J. Paton, Kew. Bull. 74, 24: 4. 2019. Type: Guinea (Conakry), Nzérékoré, Lola, Guinée Forestière, Nimba Mountains, SMFG iron ore mine concession. East side of Pierre Richaud., Phillipson 6324 (holotype MO; isotypes BR, K, P, SERG, WAG).

***Coleus foetidus* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201073-1

*Plectranthus foetidus* Benth., Labiat. Gen. Spec.: 35. 1832.

*Ocimum foetidum* Banks ex Benth., Labiat. Gen. Spec.: 35. 1832. nom. nud. Type: Australia, Queensland, Endeavour River, 1770, Banks & Solander, (holotype: BM).

**Distribution.** Australia: Queensland.

***Coleus foliatus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201074-1

*Plectranthus foliatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 284. 2009. Type: Tanzania, Sumbawanga District: Tatanda, Mbaa Hill, Bidgood et al. 3459 (holotype: K; isotypes: C, DSM, K, NHT).



**Distribution.** SW. Tanzania to N. Zambia.

***Coleus forsteri* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201075-1

*Plectranthus forsteri* Benth., Labiat. Gen. Spec.: 38. 1832. Type: Vanuatu, Tanna, J.R. & G. Forster (holotype, BM).

**Distribution.** SW. Pacific.

***Coleus fragrantissimus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201076-1

*Plectranthus fragrantissimus* P.I.Forst., Austrobaileya 8: 394. 2011. Type: Australia, Queensland, Port Curtis District, State Forest 316, Kroombit Tops, 16 Feb. 1995, P.I.Forster PIF16246 (holotype: BRI; MEL, NE, istotypes).

**Distribution.** Australia: Queensland.

***Coleus fredericii* G.Taylor, J. Bot. 69 (Suppl. 2): 159. 1931**

*Neomuelleria welwitschii* Briq., Bot. Jahrb. Syst. 19: 180. 1894., non *Coleus welwitschii* Briq. *Plectranthus welwitschii* (Briq.) Codd, Fl. Pl. Africa 42: t. 1646. 1972. Type: Angola, Pungo Andongo, April 1857, Welwitsch 5544 (isotypes: BM, C, K).

**Distribution.** Angola.

***Coleus fruticosus* Wight ex Benth. in A.P.de Candolle, Prodr. 12: 78. 1848**

*Plectranthus fruticosus* (Wight ex Benth.) Hook.f., Fl. Brit. India 4: 623. 1885, nom. illeg. *Plectranthus deccanicus* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 234. 1898. Type: India, Pulney Hills, 1837, Wight 2514 (holotype: K).

**Distribution.** SW. India

***Coleus galeatus* (Vahl) Benth., Labiat. Gen. Spec.: 56. 1832**

*Germanea galeata* (Vahl) Poir. in J.B.A.M.de Lamarck, Encycl. 2: 763. 1788.  
*Majana galeata* (Vahl) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Plectranthus galeatus* Vahl, *Symb. Bot.* 1: 43. 1790. Type: Indonesia, Java, Vahl s.n. (holotype: C).

*Ocimum plectranthus* J.F.Gmel., *Syst. Nat.* ed. 13(bis): 917. 1792. Type: not seen.

*Plectranthus bicolor* Blume, *Bijdr. Fl. Ned. Ind.*: 837. 1826.

*Coleus bicolor* (Blume) Benth., *Labiata. Gen. Spec.*: 55. 1832.

*Majana bicolor* (Blume) Kuntze, *Revis. Gen. Pl.* 2: 524. 1891. Type: Indonesia, Java, Blume 2037. (lectotype: L, designated by Keng (1969)).

*Plectranthus macrophyllus* Blume, *Bijdr. Fl. Ned. Ind.*: 835. 1826.

*Coleus macrophyllus* (Blume) Benth., *Labiata. Gen. Spec.*: 55. 1832.

*Majana macrophylla* (Blume) Kuntze, *Revis. Gen. Pl.* 2: 524. 1891. Type: Indonesia, Java, Blume 1453 (syntype: L).

*Plectranthus leschenaultii* Benth., *Labiata. Gen. Spec.*: 34. 1832. Type: Java, Leschenault (holotype: P).

*Coleus macrostachys* Benth., *Labiata. Gen. Spec.*: 57. 1832. Type: Indonesia, Java, Commerson s.n. (lectotype: P, designated here).

*Coleus macropus* Miq., *Fl. Ned. Ind.* 2: 956. 1858. Type: Indonesia, ?Java, Horsfield s.n. (holotype: U; isotypes: BM, K).

*Coleus puberulus* Miq., *Fl. Ned. Ind.* 2: 955. 1858.

*Majana puberula* (Miq.) Kuntze, *Revis. Gen. Pl.* 2: 524. 1891. Type: Indonesia, Sumatra, Singalang, Teysmann s.n. (isotype: U).

*Coleus remotiflorus* Miq., *Fl. Ned. Ind.* 2: 954. 1858. Type: Indonesia, Java in Soerakarta, Horsfield Lab. 112 (holotype: U; isotypes: BM, K).

*Coleus spectabilis* Miq., *Fl. Ned. Ind.* 2: 955. 1858. Type: Indonesia, Java, in Blambagan, Horsfield s.n. (holotype: U; isotypes: BM, K).

**Distribution.** W. Malesia to Lesser Sunda Is. (Bali).

***Coleus gamblei* (Smitha & Sunojk.) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201077-1

*Plectranthus gamblei* Smitha & Sunojk., *Nordic J. Bot.* 36 (8): 4. 2018. Type: India. Tamil Nadu, Coonoor, Aug 1883, Gamble 12263 (holotype: K).

**Distribution.** S. India.

***Coleus garckeanus* Vatke, *Linnaea* 37: 323. 1872**

*Plectranthus garckeanus* (Vatke) J.K.Morton, *Novon* 8: 265. 1998. Type: Ethiopia, Begember in valley of river Repp, 1 July 1863, Schimper 1193 (holotype: B, destroyed; isotypes: BM, E, JE, K).



*Plectranthus salviiflorus* Chiov., Malpighia 34: 516. 1937. Type: Ethiopia, Boyi near Kardobi and Abeba Kolla, Taschdjian 188 (syntype: FT); 124 (syntype: FT).

**Distribution.** Ethiopia.

***Coleus geminatus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201078-1

*Plectranthus geminatus* P.I.Forst., Austrobaileya 9: 285. 2014. Type: Australia, Queensland, Moreton District, Lamington National Park, Cainbale Falls, 27 Feb. 2014. P.I.Forster PIF40722 & G.Leiper (holotype: BRI; isotypes: K, MEL, NSW).

**Distribution.** Australia: Queensland.

***Coleus gibbosus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201079-1

*Plectranthus rehmannii* Gürke, Bull. Herb. Boissier 6: 553. 1898., non *Coleus rehmanii* Briq. Type: South Africa, Natal, Karkloof, Rehmann 7359 (holotype: Z; isotype: K).

**Distribution.** South Africa: KwaZulu-Natal.

***Coleus gigantifolius* (Suddee) Suddee, comb. nov.**

urn:lsid:ipni.org:names:77201080-1

*Plectranthus gigantifolius* Suddee, Kew Bull. 59: 401 (2004). Type: Thailand, Kanchanaburi, Thung Yai Naresuarn Wildlife Sanctuary, Ban Saneh Pawng, Lai Wo Subdistr., 225 m, 7 Oct. 1993, Maxwell 93-1156 (holotype: CMU; isotypus: L).

**Distribution.** SW. Thailand.

***Coleus gillettii* (J.K.Morton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201081-1

*Plectranthus gillettii* J.K.Morton, Kew Bull. 53: 998. 1998. publ. 1999. Type: Kenya, Northern Frontier District: Moyale, Gillett 13721 (holotype: K; isotypes: EA, LMA).

**Distribution.** S. Ethiopia, S. Somalia, N. Kenya.

***Coleus glabriflorus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201082-1

*Plectranthus glabriflorus* P.I.Forst., *Austrobaileya* 4: 174. 1994. Type: Australia, Queensland, North Kennedy District, Herberton, 20 Jan. 1993, P.I.Forster PIF12814 & A.R.Bean (holotype: BRI; isotype: CNS).

**Distribution.** Australia: Queensland.

***Coleus globosus* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201083-1

*Plectranthus globosus* Ryding, *Bull. Jard. Bot. Natl. Belg.* 66: 101. 1997. Type: DRC, Shaba, Kundulungu Plateau, 20 Mar. 1971, Lisowski 23152 (holotype: POZG, photo C).

**Distribution.** DRC.

***Coleus goetzenii* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201084-1

*Pycnostachys goetzenii* Gürke, *Durch Afr., reimpr.*: 8. 1896). Type: Rwanda, Virunga Mts, Goetzen 98 (holotype: B, destroyed).

*Pycnostachys vulcanicola* Lebrun & L.Touss., *Bull. Jard. Bot. État Bruxelles* 17: 71. 1943. Type: DRC, Virunga Range, Lebrun 5006 (holotype: BR; isotype: K).

**Distribution.** EC. Trop. Africa (Virunga Mts.).

***Coleus gossweileri* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201085-1

*Pycnostachys gracilis* R.D.Good, *J. Bot.* 69 (suppl. 2): 164. 1931., non *Coleus gracilis* Gürke. Type: Angola, R. Cuatiri, Gossweiler 4035 (holotype: BM).

**Distribution.** Angola.

***Coleus gracillimus* (T.C.E.Fr.) Robyns & Lebrun, *Ann. Soc. Sci. Bruxelles, Sér. B* 49: 106. 1929**

*Englerastrum gracillimum* T.C.E.Fr., *Notizbl. Bot. Gart. Berlin-Dahlem* 9: 69. 1924.



*Plectranthus gracillimus* (T.C.E.Fr.) Hutch. & Dandy, Bull. Misc. Inform. Kew 1926: 481. 1926. Type: DRC, Mt Corva, Deschamps s.n. (holotype: B, destroyed; isotypes: UPS, K, fragment).

*Englerastrum schlechteri* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 70. 1924.

*Plectranthus schlechteri* (T.C.E.Fr.) Hutch. & Dandy, Bull. Misc. Inform. Kew 1926: 481. 1926.

*Coleus schlechteri* (T.C.E.Fr.) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929. Types: Mozambique, Dondo near Beira, Schlechter 12240 (syntype: B, destroyed, isosyntype: PRE, K, fragment) & Tanzania, Rungwe District: Kyimbila, Mulinda, Stoltz 1440 (syntype: B, destroyed, isosyntypes: K, W).

*Plectranthus micranthus* Chiov., Boll. Soc. Bot. Ital. 1924: 44. 1924, nom. illeg., non Spreng.

*Englerastrum diffusum* Alston, Bull. Misc. Inform. Kew 1926: 298. 1926.

*Plectranthus tenuis* Hutch. & Dandy, Bull. Misc. Inform. Kew 1926: 481. 1926.

*Coleus diffusus* (Alston) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929. Type: Nigeria: Nupe, Barter s.n. (syntype: K); Nigeria, Muri Province, weed in arable land, Lamb 72 (syntype, K).

**Distribution.** Widespread in Trop. Africa.

***Coleus gracilipedicellatum* (Robyns & Lebrun) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201086-1

*Holostylon gracilipedicellatum* Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 103. 1929. Type: DRC, Katanga, Pweto to Moba (Baudouinvillie), between Kaya-bala and Lungulungu, 29 Apr. 1926, Robyns 2196 (holotype: BR; isotypes: BM, K).

*Plectranthus baumii* Gürke in O. Warburg (ed.), Kunene-Sambesi Exped.: 356. 1903, non *Coleus baumii* Gürke.

*Holostylon baumii* (Gürke) G.Taylor, J. Bot. 69(suppl. 2): 161. 1931. Type: Angola, Kubango, Massaca, 19 Oct. 1899, Baum 283 (holotype: B, destroyed, isotypes: BM, E (as 238), K, W).

**Distribution.** Southern DRC to Botswana.

***Coleus gracilis* Gürke, Bot. Jahrb. Syst. 38: 170. 1906**

*Plectranthus puberulentus* J.K.Morton, Novon 8: 265. 1998. Types: Ethiopia, Sagan, Riva 1564 (syntype: B, destroyed; isosyntype: FT), Harar, Ellenbeck 965 (syntype: B, destroyed).

**Distribution.** Ethiopia to Tanzania.

***Coleus graminifolius* (Perkins) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201087-1

*Pycnostachys graminifolia* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 66. 1921.

Type: Tanzania, Dodoma District: Kilimatinde, Prittwitz 118 (holotype: B, destroyed; isotype: UPS, K, fragment).

**Distribution.** Kenya.***Coleus grandicalyx* E.A.Bruce, Hooker's Icon. Pl. 34: t. 3391 1939***Plectranthus grandicalyx* (E.A.Bruce) J.K.Morton, Novon 8: 265. 1998. Type: Sudan, Imatong Mts, Lomul, A.S.Thomas 1935 (holotype: K).**Distribution.** S. Sudan to N. Uganda.***Coleus grandidentatus* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201088-1

*Plectranthus grandidentatus* Gürke, Bull. Herb. Boissier 6: 554. 1898. Type: South Africa, Cape, East Griqualand, Emyembe Mt, April 1885, Tyson 1517 (lectotype: K, designated by Codd (1975)).**Distribution.** S. Zimbabwe to South Africa.***Coleus graniticola* (A.Chev.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201089-1

*Solenostemon graniticola* A.Chev., J. Bot. (Morot) 22: 121. 1909.*Solenostemon monostachyus* var. *graniticola* (A.Chev.) Brenan, Kew Bull. 5: 231. 1950.*Plectranthus saxicola* B.J.Pollard & A.J.Paton, Kew Bull. 61: 229. 2006. Type: Ivory Coast, Mt Nienokue, 20 km NE of Fort Binger, Chevalier 19469 (holotype: P; isotype: K).**Distribution.** W. & WC. Trop. Africa.

***Coleus gratus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201090-1

*Plectranthus gratus* S.T.Blake, Contr. Queensland Herb. 9: 49. 1971. Type: Australia, Queensland, Walsh's Pyramid (Cultivated at The Gap), 10 Jan. 1960, S.T. Blake 21192 (holotype: BRI).

**Distribution.** Australia: NE. Queensland.

***Coleus graveolens* (R.Br.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201091-1

*Plectranthus graveolens* R.Br., Prodr. Fl. Nov. Holl.: 506. 1810.

*Plectranthus parviflorus* var. *graveolens* (R.Br.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 357. 1895.

*Plectranthus australis* var. *graveolens* (R.Br.) Domin, Biblioth. Bot. 89: 565. 1928. Type: Australia, Queensland, Port Clinton, 22. Aug. 1802, R.Brown (holotype: BM).

*Plectranthus australis* f. *eximius* Domin, Biblioth. Bot. 89: 565. 1928. Type: not seen.

**Distribution.** E. Australia, Lord Howe I.

***Coleus guerkei* (Briq.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201092-1

*Hyptis baumii* Gürke in O. Warburg (ed.), Kunene-Sambesi Exped.: 354. 1903., non *Coleus baumii* Gürke.

*Plectranthus guerkei* Briq., Annuaire Conserv. Jard. Bot. Genève 7–8: 323. 1904.

*Germanea guerkei* Briq., Annuaire Conserv. Jard. Bot. Genève 7–8: 323. 1904., nom. altern. Type: Angola, Cuito (Kuito), Baum 789 (isotypes: K, W).

*Geniosporum paniculatum* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 351. 1900., non *Coleus paniculatus* Benth.

*Neohyptis paniculata* (Baker) J.K.Morton, J. Linn. Soc., Bot. 58: 259. 1962. Type: Angola, Pungo Andongo, near Catete, Welwitsch 5528 (syntypes: BM, K).

*Geniosporum paniculatum* var. *debile* Hiern, Cat. Afr. Pl. 1: 853. 1900. Type: Angola, Pungo Andongo, Casalala near Pedra Songue, Welwitsch 5527 (holotype: LISU; isotype: BM).

*Hyptis quadrialata* A.Chev., Explor. Bot. Afrique Occ. Franç. 1: 522. 1920., nom. nud.

*Geniosporum borzianum* Chiov. Ann. Bot. (Rome) 10: 402. 1912. Type: Ethiopia. Amhara-Dembià, Mt. Incedubà near Gondar, Chiovenda 2266 (holotype: FT), synonym. nov.

**Distribution.** Widespread in Trop. & South Africa.



***Coleus gymnostomus* Gürke, Bot. Jahrb. Syst. 19: 212. 1894**

*Plectranthus gymnostomus* (Gürke) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 337. 2009.  
Type: East Africa, without precise locality, Fischer 333 (holotype: B, destroyed; isotype: K, photo.).

**Distribution.** Tanzania.

***Coleus habrophyllus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201093-1

*Plectranthus habrophyllus* P.I.Forst., Austrobaileya 4: 175. 1994. Type: Australia, Queensland, Moreton District, Ormeau, CSR land near water tower, 12 Nov. 1992, P.I.Forster PIF12391 & G.Leiper (holotype: BRI, isotypes: K, MEL).

**Distribution.** Australia: Queensland.

***Coleus hadiensis* (Forssk.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201104-1

*Ocimum hadiense* Forssk., Fl. Aegypt.-Arab.: 109. 1775.

*Plectranthus forskalaei* Vahl, Symb. Bot. 1: 44. 1790., nom. illeg.

*Germanea forskalaei* Poir. in J.B.A.M.de Lamarck, Encycl., suppl. 2: 764. 1812., nom. superfl.

*Majana forskalaei* (Poir.) Kuntze, Revis. Gen. Pl. 2: 524. 1891., nom. superfl.

*Plectranthus hadiensis* (Forssk.) Schweinf. ex Sprenger, Wiener Ill. Gart.-Zeitung 19: 2. 1894.

*Coleus forskalaei* Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 359. 1897., nom. superfl. Type: Yemen, Hadiyah ((Hadi)) Mts, Forsskål s.n (C, holotype).

*Plectranthus zeylanicus* Benth., Labiat. Gen. Spec.: 36. 1832.

*Coleus zeylanicus* (Benth.) L.H.Cramer, Kew Bull. 32: 560. 1978. Type: Ceylon, Macrae s.n. (holotype: K).

*Plectranthus tomentosus* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 229. 1838.

*Plectranthus zatarhendi* var. *tomentosus* (Benth.) Codd, Bothalia 11: 399. 1975.

*Plectranthus hadiensis* var. *tomentosus* (Benth.) Codd, Fl. S. Afr. 28: 153. 1985. Type: South Africa, Durban (Port Natal), Drège s.n. (holotype: K).

*Coleus personatus* Lem., Hort. Universel 6: 128. 1844. Type: not seen. Material at G under this name, labelled Hort Paris Aug. 1845, is *P. hadiensis*.

*Plectranthus madagascariensis* var. *ramosior* Benth. in A.P.de Candolle, Prodr. 12: 68. 1849.

*Plectranthus ramosior* (Benth.) van Jaarsv., Aloe 43: 46. 2006. Type: South Africa, Gauteng, Magaliesberg (Macalisberg), Burke s.n. (holotype: BM).

- Coleus schweinfurthii* Vatke, Linnaea 37: 323. 1872. Type: Ethiopia, Bellaka, Sept. 1854, Schimper s.n. (Type: destroyed B).
- Plectranthus paucicrenatus* Franch., Sert. Somal.: 56. 1882. Type: Somalia, Northern Somalia, Révoil s.n. (holotype: P).
- Coleus rupestris* Hochst. ex Briq., Bull. Herb. Boissier 2: 131. 1894., nom. nud.
- Plectranthus cyaneus* Gürke, Bot. Jahrb. Syst. 19: 208. 1894. Type: Tanzania, Lushoto District: Mashewa (Mascheua), Holst 8850 (syntype: B, destroyed; isosyntype: K) & Handei, near Kwa Mshusa, Holst 8984 (syntype: B, destroyed; isosyntype: JE, K, W).
- Plectranthus woodii* Gürke, Bot. Jahrb. Syst. 26: 76. 1898.
- Plectranthus zatarhendi* var. *woodii* (Gürke) Codd, Bothalia 11: 401. 1975.
- Plectranthus hadiensis* var. *woodii* (Gürke) Codd, Fl. S. Afr. 28: 154. 1985. Type: South Africa, KwaZulu-Natal, Ipolweni, Medley Wood s.n. (lectotype: GRA, designated by Codd (1975)).
- Germanea horrida* Hiern, Cat. Afr. Pl. 1: 863. 1900.
- Plectranthus horridus* (Hiern) Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 416. 1900. Types: Angola, Pungo Andongo, R. Cuanza near Condo, Welwitsch 5537 (syntypes: BM, K, LISU.); Huila, Morro de Monino, Welwitsch 5613 (syntypes: LISU, K).
- Plectranthus rupestris* Vatke ex Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 409. 1900.
- Coleus rupestris* Hochst. ex Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 409. 1900., nom. inval. (based on Schimper 2172 as below) Type: Ethiopia, near Bellaka, Sept. 1854, Schimper 2172 (lectotype: K; isolectotypes: BM, W, designated by Paton et al. 2009).
- Plectranthus draconis* Briq., Bull. Herb. Boissier, sér. 2, 3: 1071. 1903. Type: South Africa, KwaZulu-Natal, Biggarsberg, Rehmann 7092 (holotype: Z).
- Plectranthus hararensis* Gürke, Bot. Jahrb. Syst. 36: 132. 1905. Type: Ethiopia, Harar, Bachufer, Ellenbeck 846 (holotype: B, destroyed; K, fragment).
- Plectranthus erlangeri* Gürke, Bot. Jahrb. Syst. 38: 166. 1906. Type: Ethiopia, Abuelkasim, Ellenbeck 1396 (holotype: B, destroyed but see fig. in protologue).
- Plectranthus pachyphyllus* Gürke ex T.Cooke in W.H.Harvey & auct. suc. (eds.), Fl. Cap. 5(1): 285. 1910. Type: South Africa, Natal, Inchanga, Rehmann 7878 (holotype: Z).
- Plectranthus petrensis* S.Moore, J. Linn. Soc., Bot. 40: 175. 1911. Type: Zimbabwe, Chimanimani, Swynnerton 2018 (holotype: BM; isotype: K).
- Plectranthus fragrans* Lebrun & L.Touss., Bull. Jard. Bot. État Bruxelles 17: 70. 1943. Type: DRC, Katanda, Lebrun 7618 (holotype: BR; isotype: K).

**Distribution.** Widespread, Egypt to South Africa, Arabian Peninsula, Maldives, Sri Lanka.

**Notes.** Heckenhauer et al. (2019) suggest the Sri Lankan *C.zeylanicus* may represent a separate species or subspecies but further work is required.

***Coleus hallii* (J.K.Morton) A.J.Paton, comb.nov.**

urn:lsid:ipni.org:names:77201105-1

*Plectranthus hallii* J.K.Morton, J. Linn. Soc., Bot. 58: 267. 1962. Type: Ghana, Gambaga Scarp, 14 Nov. 1959, J.K.Morton A3791, (holotype: GC; isotype: K).

**Distribution.** Ghana.

***Coleus harmandii* (Doan ex Suddee & A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201106-1

Fig 4E

*Anisochilus harmandii* Doan ex Suddee & A.J.Paton, Kew Bull. 59: 384. 2004. Type: Cambodia, Mlu Prey, Jan. 1876, Harmand 326 (holotype: P; isotype: A).

**Distribution.** Indo-China.

***Coleus helferi* (Hook.f.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201107-1

*Plectranthus helferi* Hook.f., Fl. Brit. India 4: 623. 1885. Type: Burma, Tenasserim, Helfer 4061 (holotype: K).

*Plectranthus fulvescens* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 521. 1897. Type: Burma, Attran, Brandis 811 (holotype: CAL; isotype: K),

*Coleus fulvescens* Kurz, Mss in Herb. Calcutta, nom. inval., in protologue discussion above.

**Distribution.** Myanmar to N. Thailand.

***Coleus hereroensis* (Engl.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201108-1

*Plectranthus hereroensis* Engl., Bot. Jahrb. Syst. 10: 267. 1888.

*Burnatastrum hereroensis* (Engl.) P.V.Heath, Calyx 4: 175. 2001. Type: Namibia, Hereroland, Kaiser Wilhelmsberg near Okahandja, May 1886, Marloth 1350 (holotype: B, destroyed; isotypes: G, M, PRE, SAM).

*Coleus aconitiflorus* Welw. ex Hiern, Cat. Afr. Pl. 1: 866. 1900. Type: Angola, Huíla, Catumba, Mar.1879, Welwitsch 5495 (holotype: LISU; isotypes: G, K).

*Plectranthus matabelensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 417. 1900. Type: Zimbabwe, Matabeleland, Shashe R., 27.Mar.1875, Holub 1403–1406 (holotype: K).



- Neomuelleria damarensis* S.Moore, J. Bot. 1901: 265. 1901. Type: Namibia, Damara-land, 1879, Een s.n. (holotype: BM).
- Germanea myriantha* Briq., Bull. Herb. Boissier, sér. 2, 3: 1001. 1903.
- Plectranthus myrianthus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1001. 1903.
- Coleus myrianthus* (Briq.) Brenan, Mem. New York Bot. Gard. 9: 43. 1954. Type: South Africa, Witwatersrand, Apr. 1895, Hutton 877 (holotype: Z; isotypes: GRA, K, PRE).
- Coleus matopensis* S.Moore, J. Bot. 45: 96. 1907. Type: Zimbabwe, Matobo Hills, Eyles 1024 (holotype: BM; isotype: GRA).
- Coleus polyanthus* S.Moore, J. Bot. 45: 96. 1907. Type: Zimbabwe, Matobo Hills, Nov. 1903, Eyles 1012 (holotype: BM).
- Coleus gazensis* S.Moore, J. Linn. Soc., Bot. 40: 178. 1911. Type: Zimbabwe, Chimanimani (Melsetter), 28 June 1907, Swynnerton 1998 (holotype: BM).
- Plectranthus otaviensis* Dinter, Repert. Spec. Nov. Regni Veg. Beih. 53: 116. 1928. nom. inval. Based on Namibia, Otavi, Dinter 5699 (B, destroyed, PRE, SAM).
- Plectranthus aurifer* Dinter ex Launert, Mitt. Bot. Staatssamml. München 2: 312. 1957. Type: Namibia, Grootfontein, Nossib, 22 Apr. 1934, Dinter 7367 (holotype: M, isotypes: BOL, K).

**Distribution.** Southern tropical & South Africa.

***Coleus hijazensis* (Abdel Khaik) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201109-1

- Plectranthus hijazensis* Abdel Khalik, Turkish J. Bot. 40(5): 507. 2016. Type: Saudi Arabia, Al Baha Province, Saad Medhass, Abdel Khalik & Howladar s.n (holotype: UQU; isotypes: E, K, SHG).

**Distribution.** SW. Arabian Peninsula

***Coleus humulopsis* (B.J.Pollard) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201110-1

- Leocus membranaceus* J.K.Morton, J. Linn. Soc., Bot. 58: 270. 1962., non *Coleus membranaceus* Briq.
- Plectranthus humulopsis* B.J.Pollard, Kew Bull. 64: 260. 2009. Type: Ghana, Kintampo, Morton A2585 (holotype: GC; isotypes: FHI, IFAN, K, WAG).

**Distribution.** W. Trop. Africa to Cameroon.

***Coleus hymalis* (J.R.I.Wood) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201111-1

*Plectranthus hyemalis* J.R.I.Wood, Kew Bull. 39: 133. 1984. Type: Yemen, between Musalla & Saqool, Ahkum, Hujariyah, 2 Feb. 1977, J.R.I. Wood 1532 (holotype: K; isotypes BM, E).

**Distribution.** Yemen.

***Coleus idukkianus* (J.Mathew, Yohannan & B.J.Conn) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201112-1

*Plectranthus idukkianus* J.Mathew, Yohannan & B.J.Conn, Telopea 20: 183. 2017. Type: India: Kerala: Idukki District, 10 km away from Kuttikkanam, Panchalimedu Hills, 14 Dec. 2015, J. Mathew 4821 (holotype: TBGT; isotype: MSSRF).

**Distribution.** India, endemic to the Western Ghats.

***Coleus igniarioides* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201113-1

*Plectranthus igniarioides* Ryding, Novon 15: 361. 2005. Type: Somalia, Sanaag, 43 km from Ceel Afweyn, on road to Ceerigaabo, M. Thulin 10768 (holotype: UPS; isotype: K).

**Distribution.** Somalia.

***Coleus igniarius* Schweinf., Beitr. Fl. Aethiop.: 121. 1867**

*Plectranthus igniarius* (Schweinf.) Agnew, Upland Kenya Wild Fl.: 638. 1974. Types: Ethiopia, Dehli-Dikeno, 1854, Schimper 527 (holotype: B, destroyed; neotype: Ethiopia, Gondar Region, Dehli Dikeno, July 1853, Schimper 1623 (neotype: P, designated by Ryding (2001))).

*Plectranthus malinvaldii* Briq., Bull. Herb. Boissier 2: 125. 1894.

*Coleus malinvaldii* (Briq.) Briq., Annuaire Conserv. Jard. Bot. Genève 2: 240. 1898. Type: Ethiopia, Gondar Region, Dehli Dikeno, 22 Oct. 1854, Schimper 529 (lectotype: G-DC; isoelectotype: G, FT, P; K, photo., designated by Ryding (2001)).

*Coleus degasparisianus* Buscal. & Muschl., Bot. Jahrb. Syst. 49: 487. 1913. Types: Mozambique, Mbusi (but in reality from Mahio in Haddes Valley, Eritrea), von Aosta

(holotype: B, destroyed; neotype: Eritrea, Arrot Valley, south of Aidereso, Schweinfurth & Riva 1398 (neotype: FT; BR, G, P, S, isoneo. designated by Ryding (2001)). *Coleus guidottii* Chiov., Atti Reale Accad. Italia, Mem. Cl. Sci. Fis. 11: 54. 1940. Type: Eritrea, Habab, Cub Cub near Nacfa, Guidotti 776 (holotype: FT). *Plectranthus igniarius* subsp. *grandicalyx* Beentje, Kenya Trees, Shrubs & Lianas: 633. 1994, nom. inval. Based on: Kenya, Mt Kulal, Verdcourt 2269 (single collection at K or EA not specified).

**Distribution.** NE. Trop. Africa to N. Kenya, Arabian. Peninsula.

***Coleus ignotus* (A.J.Paton) A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201114-1

*Plectranthus ignotus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 278. 2009. Type: Tanzania, Ufipa District: Mbisi (Mbizi) Mts, Bidgood, Mbago & Vollesen 2544 (holotype: K; isotypes: C, DSM, NHT).

**Distribution.** SW. Tanzania.

***Coleus inflatus* Benth., Labiat. Gen. Spec.: 58. 1832**

*Majana inflata* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Plectranthus inflatus* (Benth.) R.H.Willemse, Blumea 25: 509. 1979. Type: Ceylon, Macrae s.n., in Hb. Benth. (holotype: K (K000820110)).

*Coleus benthamianus* Arn., Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 354. 1836.

*Majana benthamiana* (Arn.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Ceylon, Graham s.n. (type: not seen).

**Distribution.** Sri Lanka.

***Coleus inselbergii* (B.J.Pollard & A.J.Paton) A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201115-1

*Plectranthus inselbergii* B.J.Pollard & A.J.Paton, Kew Bull. 61: 225. 2006. Type: Equatorial Guinea, Dalle Rocheuse (inselberg), 3 km S of Asok, 13 Jan. 1999, LeJoly 99/282 (holotype: BRLU; isotype: K).

**Distribution.** Equatorial Guinea to NW. Gabon.



***Coleus insignis* (Hook. f.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201116-1

*Plectranthus insignis* Hook.f., J. Proc. Linn. Soc., Bot. 7: 210. 1864. Type: Cameroons Upper Guinea Cameroon Mountain, 7000 ft., Mann 1257 (holotype: K).

**Distribution.** Cameroon, Gabon, Central African Rep.

***Coleus insolitus* (C.H.Wright) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 94. 1929**

*Symphostemon insolitus* (C.H.Wright) Hiern, Cat. Afr. Pl. 1: 867. 1900.

*Plectranthus insolitus* C.H.Wright, J. Linn. Soc., Bot. 34: 275. 1900. Type: Angola, Welwitsch 5593 (holotype: BM).

**Distribution.** Angola.

***Coleus insularis* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201117-1

*Plectranthus insularis* P.I.Forst., Austrobaileya 8: 398. 2011. Type: Australia, Queensland, Darling Downs District, Mingimarny State Forest 131, Pine hill, 20 km S of Millmerran, 28 Apr. 1995, P.I.Forster PIF16468 & S.J.Figg (holotype: BRI; isotype: MEL).

**Distribution.** Australia: Queensland.

***Coleus intraterraneus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201118-1

*Plectranthus intraterraneus* S.T.Blake, Contr. Queensland Herb. 9: 33. 1971. Type: Australia, Northern Territory, Palm Valley W of Alice Springs (Cultivated at The Gap), 1958, S.T.Blake 20193 (holotype: BRI).

**Distribution.** Australia: Queensland, Northern Territory, South Australia, Western Australia.

***Coleus kanneliyensis* L.H.Cramer & S. Balas., Kew Bull. 32: 558. 1978**

*Plectranthus kanneliyensis* (L.H.Cramer & S. Balas.) R.H.Willemse, Blumea 25: 510. 1979. Type: Sri Lanka, Kanneliya, Cramer 4317 (holotype: PDA; isotypes: E, K, NVB, US).

**Distribution.** Sri Lanka.

***Coleus kanyakumariensis* (Shinoj & Sunojk.) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201119-1

*Anisochilus kanyakumariensis* Shinoj & Sunojk. Phytotaxa 333(1): 100. 2018. Type: India, Kanyakumari district, Maruthwamala, K.Shinoj & P.Sunojkumar CU138400a (holotype: CALI; isotypes (CALI, MH).

**Distribution.** S. India.

***Coleus kapatensis* R.E.Fr., Wiss. Erg. Schwed. Rhod.-Kongo Exped. 1: 283. 1916**

*Plectranthus kapatensis* (R.E.Fr.) J.K.Morton, Novon 8: 265. 1998. Type: Zambia, Bangweulu (Bangwelo), Kamindas on Kapata Peninsula, R.E.Fries 871 (isotype: K).

**Distribution.** S. Tanzania to S. Trop. Africa.

***Coleus kirkii* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201120-1

*Pycnostachys kirkii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 381. 1900. Type: Malawi, Manganja Hills, Kirk s.n. (lectotype; K, designated by Bramley in Paton et al. (2009)).

*Echinostachys reticulata* E.Mey., Comm. Pl. Afr. Austr.: 243. 1838., non *Coleus reticulatus* A.Chev.

*Pycnostachys reticulata* (E.Mey.) Benth. in A.P.de Candolle, Prodr. 12: 83. 1848. Type: South Africa, KwaZulu-Natal, Umlazi Valley, near Durban, Drège s.n. (holotype: K; isotype: PRE).

*Pycnostachys reticulata* var. *angustifolia* Benth. in A.P.de Candolle, Prodr. 12: 83. 1848. Types: South Africa, KwaZulu-Natal, Durban, 1840, Krauss 329 (syntype: K); Gauteng, Magaliesburg, n.d., Burke s.n. (syntype: K).

*Pycnostachys uliginosa* Gürke, Bot. Jahrb. Syst. 30: 396. 1901. Type: Tanzania, Njombe District: Ubena, Luhigi stream, Goetze 806 (holotype: B, destroyed; K, fragment).

*Pycnostachys holophylla* Briq., Bull. Herb. Boissier, sér. 2, 3: 1000. 1903. Type: South Africa, Gauteng, Johannesburg, n.d., E.S.C.A. Herb. 347 (holotype: G).

*Pycnostachys purpurascens* Briq., Bull. Herb. Boissier, sér. 2, 3: 998. 1903. Type: South Africa, Witwatersrand, no locality, April.1895, Hutton 878 (holotype: Z).

*Pycnostachys schlechteri* Briq., Bull. Herb. Boissier, sér. 2, 3: 999. 1903. Type: South Africa, Eastern Cape, Mt Frere, 24 Jan.1895, Schlechter 6406 (holotype Z; isotypes: GRA, PRE).

**Distribution.** Nigeria to Cameroon, Tanzania to South Africa.

***Coleus kivuensis* Lebrun & L.Touss., Bull. Jard. Bot. État Bruxelles 17: 72. 1943**

*Plectranthus kivuensis* (Lebrun & L.Touss.) R.H.Willemsse, Kew Bull. 40: 96. 1985. Type: DRC, Kivu, Rutshuru, Lebrun 9031 (holotype BR; isotype: K).

**Distribution.** Eritrea to N. Tanzania.

***Coleus klossii* (S.Moore) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201121-1

*Plectranthus klossii* S.Moore, Trans. Linn. Soc. London, Bot. 9: 137. 1916. Type: Indonesia, Papua, Utkwa River to Mt Carstensz, C. Boden-Kloss (holotype: BM (BM000950283); isotype: K).

*Plectranthus klossii* var. *major* S.Moore, Trans. Linn. Soc. London, Bot. 9: 137. 1916. Type: Indonesia, Papua, Utkwa River to Mt Carstensz, C. Boden-Kloss (holotype: BM (BM000950282)).

***Coleus koualensis* A.Chev. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 290. 1931**

*Solenostemon koualensis* (A.Chev. ex Hutch. & Dalziel) J.K.Morton, J. Linn. Soc., Bot. 58: 270. 1962.

*Plectranthus koualensis* (A.Chev. ex Hutch. & Dalziel) B.J.Pollard & A.J.Paton, Kew Bull. 61: 228. 2006. Type: Ivory Coast, Upper Sassandra, Mt Dourou, Fleury in Chevalier 21715 (holotype: P).

**Distribution.** Ivory Coast (Mt. Dourou).



***Coleus koulikoroensis* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201122-1

*Solenostemon chevalieri* Briq., Mém. Soc. Bot. France 8: 286. 1917., non *Coleus chevalieri* Briq.

*Plectranthus chevalieri* (Briq.) B.J.Pollard & A.J.Paton, Kew Bull. 61: 229. 2006. Type: Mali, Koulikoro, Chevalier 2779 (holotype: P).

*Coleus nigericus* A.Chev., Explor. Bot. Afrique Occ. Franç. 1: 519. 1920, nom. nud.

**Distribution.** W. Trop. Africa.

***Coleus kunstleri* (Prain) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201123-1

*Plectranthus kunstleri* Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 521. 1897. Type: Malaysia, Perak, Kwala Dipoug (Kuala Dipang), Kunstler, 8240 (holotype: CAL).

**Distribution.** Peninsula Malaysia (Perak).

***Coleus lactiflorus* Vatke, Linnaea 43: 89. 1881**

*Plectranthus lactiflorus* (Vatke) Agnew, Upland Kenya Wild Fl.: 637. 1974. Type: Kenya, Teita District: Ndi Hill (N'Di), Hildebrandt 2522 (holotype: B, destroyed; neotype: Kenya, Teita District, Mbololo Forest, Taita Hills Expedition 1042 (neotype: K, isoneotype: EA, designated by Paton et al. (2009))).

**Distribution.** Ethiopia to N. & NW. Tanzania.

***Coleus laetus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201124-1

*Plectranthus laetus* P.I.Forst., Austrobaileya 9: 431. 2015. Type: Australia, Queensland, Cook District, Orchid Creek Station, 30 April 2014, P.I.Forster PIF41138 & S.L.Thompson (holotype: BRI; isotypes: CNS, MEL, NSW).

**Distribution.** Australia: Queensland.

***Coleus lageniocalyx* Briq., Mém. Soc. Bot. France 8: 292. 1917**

*Coleus lageniocalyx* Briq., Mém. Soc. Bot. France 8: 292. 1917. Type: Central African Republic, Bassinde Haute Ombella, Kaga Do, near Diouma, 26 Oct. 1902, Chevalier 5923 (holotype: P).

**Distribution.** Central African Republic

***Coleus lanceolatus* (Bojer ex Benth.) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201125-1

*Plectranthus lanceolatus* Bojer ex Benth., Labiat. Gen. Spec.: 40. 1832.

*Burnatastrum lanceolatum* (Bojer ex Benth.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 358. 1897. Type: Madagascar, Bojer s.n. (holotype: P; isotype: K).

*Plectranthus lavanduloides* Baker, J. Linn. Soc., Bot. 20: 230. 1883.

*Burnatastrum lavanduloides* (Baker) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 358. 1897. Type: Madagascar, Central Madagascar, Baron 978 (holotype: K).

*Plectranthus burnatii* Briq., Bull. Herb. Boissier 2: 124. 1894. Type: Madagascar, around Antananarive, Goudot s.n. (holotype: G; isotype: G).

**Distribution.** Madagascar.

***Coleus lancifolius* (Bramley) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201126-1

*Pycnostachys lancifolia* Bramley, Kew Bull. 60: 590. 2005 publ. 2006. Type: Tanzania, Kigoma District: Lubalisi village to Ntakatta, Bidgood, Leliyo & Vollesen 4621 (holotype: K; isotypes: C, DSM, NHT, P).

**Distribution.** W. Tanzania.

***Coleus lanuginosus* Hochst. ex Benth. in A.P.de Candolle, Prodr. 12: 79. 1848**

*Majana lanuginosa* (Hochst. ex Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Plectranthus lanuginosus* (Hochst. ex Benth.) Agnew, Upland Kenya Wild Fl.: 638. 1974. Type: Ethiopia, Adua, 4 Oct. 1842, Schimper 1915 (lectotype: K; isolectotypes: BM, FT, KIEL, UPS, W; designated by Ryding (2000)).

*Coleus albidus* Vatke, Linnaea 37: 321. 1872. Type: Ethiopia, Mettaro, 1 Oct. 1862, Schimper 347 (holotype: B, destroyed; isotypes: JE, PRE, Z).

*Coleus schimperi* Vatke, Linnaea 37: 320. 1872.

*Coleus barbatus* var. *schimperi* (Vatke) Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 430. 1900.

*Plectranthus semayatensis* Cufod., Bull. Jard. Bot. État Bruxelles 33(Suppl.): 838. 1963., non *P. schimperi* Vatke. Type: Ethiopia, Semajada (Semayata), 12 Oct. 1862, Schimper 618 (holotype: B, destroyed; isotypes: BM, G, JE, K).

*Coleus montanus* Hochst. ex Ces., Rendiconto Reale Accad. Sci. Fis. 12: 264–266. 1879. Type: Ethiopia, Schimper 2460 (holotype: RO, Erbario Cesati) synonym. nov.

*Coleus trichophorus* Briq., Bull. Herb. Boissier 2: 130. 1894. Type: Ethiopia, Amaneski, 5 Nov. 1854, Schimper 342 (holotype; G; isotype: P).

*Coleus maculatus* Gürke, Bot. Jahrb. Syst. 19: 210. 1894. Type: Tanzania, Moshi District: Marangu, Volkens 429 (holotype: B, destroyed; isotypes: BM, G).

*Coleus maranguensis* Gürke, Bot. Jahrb. Syst. 19: 216. 1894. Type: Tanzania, Moshi District: Marangu, Volkens 630 (holotype: B, destroyed; isotype: BM).

*Coleus gomphophyllus* Baker, Bull. Misc. Inform. Kew 1895: 225. 1895. Type: Somalia, Golis Range, Lort Phillips s.n. (holotype, K).

*Coleus schweinfurthii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 432. 1900., nom. illeg., non *C. schweinfurthii* Vatke.

*Coleus sodalium* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 526. 1900. Type: Eritrea, Mogad (Magod) Valley, Schweinfurth & Riva 1810 (holotype: K; isotype: Z).

*Coleus somalensis* S.Moore, J. Bot. 1901: 265. 1901. Type: Somalia, Gan Liban, Donaldson-Smith s.n. (holotype: BM).

*Coleus gallaensis* Gürke, Bot. Jahrb. Syst. 38: 169. 1906. Type: Ethiopia, Belana, Ellenbeck 374 (syntype: B, destroyed); Gara Mulata, Ellenbeck 576 (syntype: B, destroyed; neotype: Ethiopia, Harerge Region, Gara Mulata, Gillett 5348 (neotype: K, designated by Ryding (2000))).

*Coleus helenae* Buscal. & Muschl., Bot. Jahrb. Syst. 49: 487. 1913. Type: Zambia, Lake Bangweulu (Banguelo-See), but in reality from Eritrea, Mai Gogol, near Segeneti, von Aosta 862 (holotype: B, destroyed; neotype: Eritrea, Sageneti, Schweinfurth & Riva 1184 (neotype: FT; isoneotype: BR, K, P; designated by Ryding (2001))).

**Distribution.** Eritrea to N. Tanzania, SW. Arabian Peninsula. Naturalized in Zimbabwe.

### ***Coleus lasianthus* Gürke, Bot. Jahrb. Syst. 19: 212. 1894**

*Plectranthus lasianthus* (Gürke) Vollesen, Opera Bot. 59: 84. 1980. Types: Tanzania, Kondoa District: Irangi, Fischer 507 (holotype: B, destroyed; neotype selected here: Tanzania, Same District: Mkomazi Game Reserve, Ngurunga Dam, Abdallah, Mboya & Vollesen 96/109, (neotype: K; isoneotype: NHT, designated by Paton in Paton et al. (2009))).



- Coleus decumbens* Gürke, Bot. Jahrb. Syst. 19: 211. 1894. Types: Tanzania, Moshi District: Lake Chala (Dschallasee), Volkens 327 (syntype: B, destroyed; isosyntype: K) & Kenya, Kwale District: Duruma, Txamtei, Hildebrandt 2320 (syntype: B, destroyed).
- Coleus tetensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 431. 1900.
- Plectranthus tetensis* (Baker) Agnew, Upland Kenya Wild Fl.: 635. 1974. Type: Mozambique, Lower Zambesi, near Tete, Kirk s.n. (holotype: K).
- Coleus menyharthii* Briq., Bull. Herb. Boissier, sér. 2, 3: 1074. 1903. Type: Mozambique, Mefidze (Mfidzi) R., towards Katacha, Menyharth 1185 (isotype: Z).
- Coleus vagatus* E.A.Bruce, Bothalia 6: 227. 1951.
- Plectranthus vagatus* (E.A.Bruce) Codd in Ross, Fl. Natal: 305. 1971, nom. inval. Type: South Africa, Nelspruit District: Kruger National Park, 2.4 km E of Skukuza, Codd 5489 (holotype: PRE; isotype: K).
- Plectranthus erubescens* Hedge, Fl. Madag. 175: 216. 1998. Type: Madagascar, Beza Mahafaly Reserve, Phillipson 1833 (holotype: E; isotypes: K, MO, P).

**Distribution.** Ethiopia to South Africa, Madagascar.

***Coleus lateriticola* (A.Chev.) Phillipson, O. Hooper & A.J. Paton, Kew. Bull. 74, 24: 9. 2019, non *C. lateriticola* A. Chev. Explor. Bot. Afrique Occ. Franc. 1: 519. 1920, nom. nud.**

- Solenostemon lateriticola* A.Chev., J. Bot. (Morot) 22: 121. 1909.
- Solenostemon monostachyus* subsp. *lateriticola* (A.Chev.) J.K.Morton, J. Linn. Soc., Bot. 58: 271. 1962.
- Plectranthus monostachyus* subsp. *lateriticola* (A.Chev.) B.J.Pollard, Kew Bull. 56: 980. 2001. Type: Guinea, Fonta-Djalón, entre Irebeleya et Timbo, Chevalier 18300 (holotype: P, photo K).

**Distribution.** Guinea, Ivory Coast, Sierra Leone.

***Coleus laxus* (T.C.Wilson & P.I.Forst) T.C.Wilson & P.I.Forst, comb. nov.**  
urn:lsid:ipni.org:names:77201128-1

- Plectranthus laxus* T.C.Wilson & P.I.Forst., Australian Systematic Botany 31: 440. 2018. Type: Queensland: Cook: Mount Cook walking track, before National Park, 7 April 2016, P.I. Forster PIF45043 & K.R. McDonald (holotype: BRI; isotype: NSW).

**Distribution.** Australia: Queensland.

***Coleus leiperi* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201129-1

*Plectranthus leiperi* P.I.Forst., *Austrobaileya* 4: 177. 1994. Type: Australia, Queensland, Moreton District, Diana's Bath area, D'Aguilar Range, 9 km E of Somerset Dam, 19 Jun. 1993, P.I.Forster PIF13348 (holotype: BRI, isotype: MEL).

**Distribution.** Australia: Queensland.

***Coleus linearifolius* (J.K.Morton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201130-1

*Plectranthus linearifolius* (J.K.Morton) B.J.Pollard & A.J.Paton, *Kew Bull.* 61: 229. 2006.

*Solenostemon linearifolius* J.K.Morton, *J. Linn. Soc., Bot.* 58: 271. 1962. Type: Guinea, Fiendiou, Pobeguïn 1920 (holotype: IFAN; isotype P).

**Distribution.** Guinea.

***Coleus livingstonei* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201131-1

*Pycnostachys urticifolia* Hook., *Bot. Mag.* 89: t. 5365. 1863.

*Coleus urticifolius* (Hook.) Roberty, *Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat.* 16: 330. 1954, nom. illeg., non *Coleus urticifolius* Benth. Type: Malawi, ex Hort. Kew, seeds sent from Mt Zomba by Livingstone (holotype: K).

*Pycnostachys pubescens* Gürke in H.G.A.Engler, *Pflanzenw. Ost-Afrikas*, C: 345 (1895), non *Coleus pubescens* Merr.

*Pycnostachys urticifolia* var. *pubescens* (Gürke) Gürke, *Bot. Jahrb. Syst.* 22: 146 (1895). Types: Mozambique, Gorungosa, Carvalho s.n. (syntype: B, destroyed; isosyntype:, COI); Malawi, without precise locality, Buchanan s.n. (syntype: B, destroyed).

**Distribution.** Tanzania to South Africa.

***Coleus longipetiolatus* Gürke, *Bot. Jahrb. Syst.* 19: 214. 1894**

*Coleus longipetiolatus* Gürke, *Bot. Jahrb. Syst.* 19: 214. 1894. Type: Tanzania, Usambara Mts, Kwa Mshusa, 15.Aug.1893, Holst 9076 (holotype: B destroyed; isotypes: COI, G, K, M, P, W).

*Coleus leptophyllus* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 427. 1900.

*Plectranthus leptophyllus* (Baker) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 284. 2009. Type: Kenya, Ribe (Ribi) to Galla country, Wakefield s.n. (holotype: K).

*Coleus swynnertonii* S.Moore, J. Linn. Soc., Bot. 40: 177. 1911.

*Plectranthus chiridensis* Codd, Fl. Pl. Africa 48: t. 1887. 1984. Type: Zimbabwe, Chirinda, Swynnerton 349 (holotype: BM; isotype K).

**Distribution.** E. & S. Trop. Africa.

***Coleus lyratus* (A.Chev.) Roberty, Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 16: 330. 1954**

*Leocus lyratus* A.Chev., J. Bot. (Morot) 22: 126. 1909. Type: Guinea, Fouta-Djalou, Mt Tinka, near Dalaba, Chevalier s.n. (holotype: P).

**Distribution.** Sierra Leone, Guinea.

**Notes.** Paton et al. (2013) considered this as a synonym of *P. betonicifolius*, but the west African *C. lyratus* is a larger plant with retrorse, rather than antrorse stem hairs.

***Coleus macranthus* Merr., Philipp. J. Sci. 1(suppl.): 234. 1906**

*Plectranthus merrillii* H.Keng, Fl. Males. 8: 391. 1978. Types: Philippines, Luzon, Mt Data, Merrill 4502, 4483, 4505 (isosyntypes: K).

**Distribution.** Philippines (N. Luzon).

***Coleus maculosus* (Lam.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201133-1

*Galeopsis maculosa* Lam., Encycl. 2: 601. 1788.

*Germanea maculosa* Lam., Encycl. 2: 691. 1788.

*Plectranthus maculosus* (Lam.) Salisb., Prodr. Stirp. Chap. Allerton: 88. 1796. Type: cultivated, from Africa (holotype: P-Lam).

*Ocimum punctatum* L.f., suppl. Pl.: 275. 1782, non *Coleus punctatus* Baker.

*Plectranthus punctatus* (L.f.) L'Hér., Stirp. Nov.: 87. 1788.

*Germanea punctata* (L.f.) Poir. in J.B.A.M.de Lamarck, Encycl. 2: 763. 1788.

*Coleus praetermissus* Bullock & Killick, Taxon 6: 239. 1957.

*Plectranthus punctatus* L'Hér. subsp. *punctatus*. Fl. Trop. E. Afr., Lamiac.: 350. 2009. Type: “Abyssinia”, cultivated from seed sent by Bruce at Hort. Kew, 1774, (neotype: BM; isoneotype: G; designated by Hedge et al. (1998)).

**Distribution.** Widespread. Trop. Africa, Madagascar.



***Coleus maculosus* subsp. *maculosus***

*Coleus glandulosus* Hook.f., J. Proc. Linn. Soc., Bot. 7: 211. 1864.

*Majana glandulosa* (Hook.f.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Types: Cameroon, Cameroon Mt, Mann 1301 & 1988 (syntypes: K).

*Coleus doba* Hochst. ex Chiov., Ann. Bot. (Rome) 9: 126. 1911. Types: Ethiopia, Tigre, near Adua, 1852, Schimper 2040 (syntype: P; isosyntype: TUB); Semien, Dabarek, Chiovenda 969 (syntype: FT); Dembia, Gondar, Chiovenda 1500 (syntype: P).

*Coleus serrulatus* Robyns, Bull. Jard. Bot. État Bruxelles 17: 78. 1943.

*Plectranthus serrulatus* (Robyns) Troupin & Ayob., Bull. Jard. Bot. Natl. Belg. 55: 299. 1985. Type: DRC, R. Susa, de Witte 2214 (isosyntype: K).

**Distribution.** Cameroon, to Eritrea and Tanzania, Madagascar.

***Coleus maculosus* subsp. *edulis* (Vatke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201134-1

*Coleus edulis* Vatke, Linnaea 37: 319. 1872.

*Plectranthus edulis* (Vatke) Agnew, Upland Kenya Wild Fl.: 640. 1974.

*Plectranthus punctatus* subsp. *edulis* (Vatke) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 350. 2009. Type: Ethiopia, near Gaffat, 1863, Schimper 1212 (isotype: K, Z, mixed with *C. barbatus*).

*Coleus tuberosus* A.Rich., Tent. Fl. Abyss. 2: 185. 1850., nom. illeg., non *C. tuberosus* (Blume) Benth.

*Majana richardiana* Kuntze, Revis. Gen. Pl. 2: 524. 1891., nom. illeg., based on above.

*Coleus palustris* Vatke, Linnaea 37: 319. 1872. Type: Ethiopia, Daschan Meda, 15 Sept. 1863, Schimper 1186 (holotype: B, destroyed; isotypes: BM, JE, K, PRE, W, Z).

*Coleus rivularis* Vatke, Linnaea 37: 320. 1872. Type: Ethiopia, Gaffat, 25 Sept. 1863, Schimper 1172 (holotype: B, destroyed; isotypes: BM, JE, K, PRE, US, W, Z).

*Coleus aquaticus* Gürke, Bot. Jahrb. Syst. 19: 218. 1894. Types: Tanzania, Kilimanjaro, Marangu, Volken 583 (syntype: B, destroyed); Mawenzi, Volken 860 (syntype: B, destroyed; isosyntype: E).

*Coleus clivicola* S.Moore, J. Linn. Soc., Bot. 38: 274. 1908. Type: Uganda, E Ruwenzori, Wollaston s.n. (holotype: BM).

*Coleus fimbriatus* Lebrun & L.Touss., Bull. Jard. Bot. État Bruxelles 17: 79. 1943.

*Plectranthus fimbriatus* (Lebrun & L.Touss.) Troupin & Ayob., Bull. Jard. Bot. Natl. Belg. 55: 299. 1985. Type: DRC, Mt Mushumangabo, Lebrun 7163 (holotype: BR).

**Distribution.** Ethiopia, Kenya, Uganda Tanzania, Burundi, Rwanda and DRC.

***Coleus maculosus* subsp. *lanatus* (J.K.Morton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201135-1

Fig. 5A

*Plectranthus punctatus* subsp. *lanatus* J.K.Morton, J. Linn. Soc., Bot. 58: 268. 1962. Type: Cameroon, Bamenda, near Bambui, Bamenda, Adams GC11322 (holotype: GC).

**Distribution.** Cameroon.

**Notes.** Paton et al. (2009, 2013) considered this as a synonym of subsp *edulis*, but the prominent indumentum and disjunction warrant separate recognition.

***Coleus madagascariensis* (Pers.) A.Chev., Rev. Int. Bot. Appl. Agric. Trop. 33: 338. 1953**

*Ocimum madagascariense* Pers., Syn. Pl. 2: 135. 1806.

*Plectranthus madagascariensis* (Pers.) Benth., Labiat. Gen. Spec.: 37. 1832. Type: Mauritius or Reunion, n.d., Commerson 266 (holotype: P-JU 5706).

*Plectranthus hirtus* Benth., Labiat. Gen. Spec.: 38. 1832. Type: South Africa, Cape, n.d., Masson s.n. (holotype: BM).

*Plectranthus villosus* Sieber ex Benth., Labiat. Gen. Spec.: 38. 1832. Type: Mauritius, Sieber, Fl. Maurit. Exsic. 152 (holotype: K; isotype: P).

*Plectranthus mauritianus* Bojer, Hortus Maurit.: 254. 1837., nom. inval.

*Plectranthus pubescens* Willd. ex Benth., Linnaea 11: 344. 1837., nom. inval.

*Ocimum auricula* Forssk. ex Benth. in A.P.de Candolle, Prodr. 12: 43, 68. 1848., nom. inval.

**Distribution.** Mozambique to South Africa, Mascarenes.

***Coleus malabaricus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 16. 1830**

*Plectranthus malabaricus* (Benth.) R.H.Willemse, Blumea 25: 509. 1979. Type: India, Travancore, Wall. Num. List 2735A, in Hb. Madr. (holotype: K-W (K001116979)).

*Coleus macraei* Benth., Labiat. Gen. Spec.: 58. 1832. Type: Ceylon, Macrae s.n., (holotype: K(K000820112)).

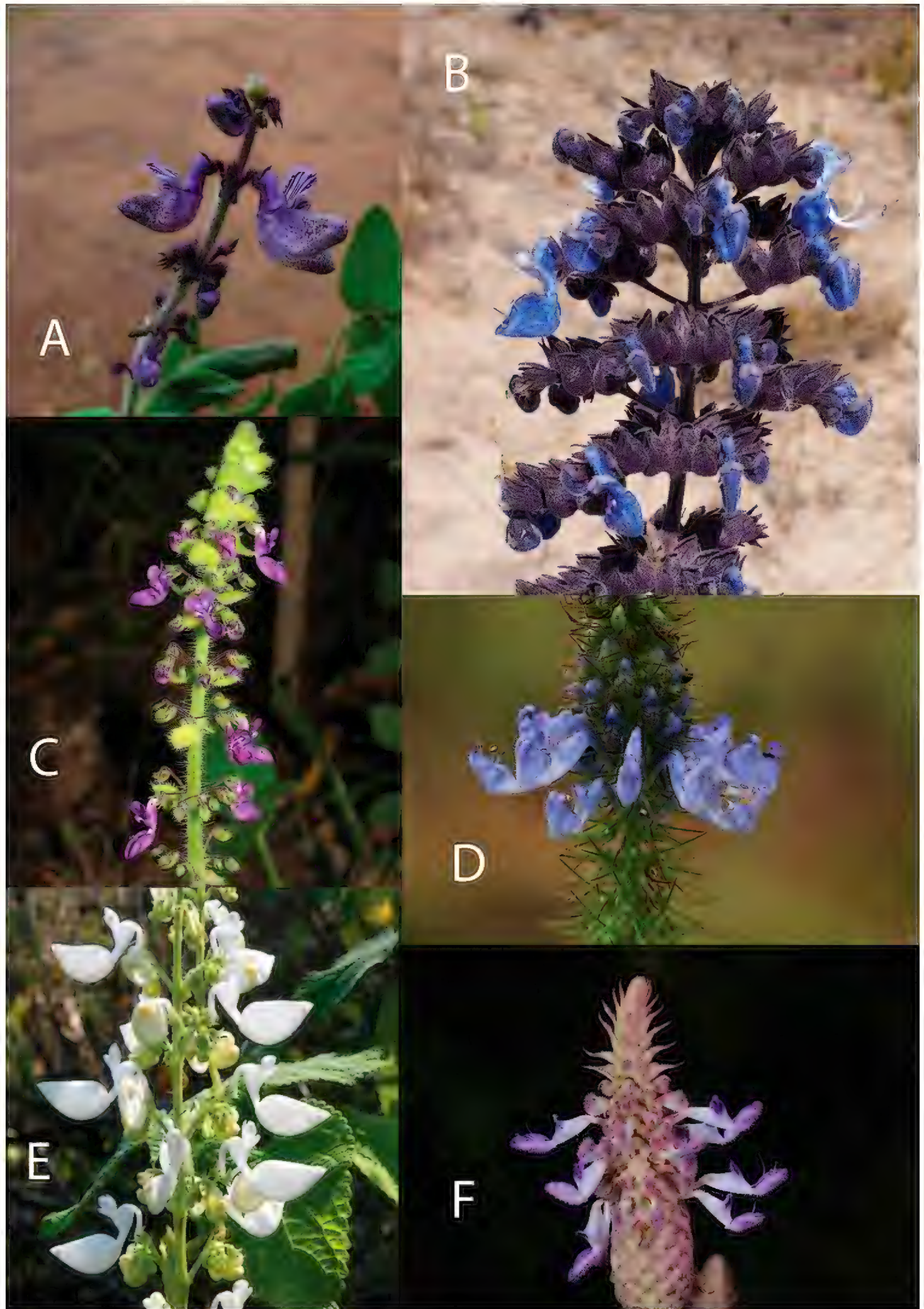
*Coleus ovatus* Benth., Labiat. Gen. Spec.: 57. 1832. Type: India, in Coromandelia, Wright, s.n. (holotype: K (K000820121)).

*Coleus leptostachys* Benth. in A.P.de Candolle, Prodr. 12: 77. 1848.

*Plectranthus malabaricus* var. *leptostachys* (Benth.) R.H.Willemse, Blumea 25: 510. 1979. Type: Ceylon, Walker s.n., (holotype: K (K000820114)).

*Coleus walkeri* Benth. in A.P.de Candolle, Prodr. 12: 77. 1848. Type: Ceylon, Walker s.n., in Hb, Benth. (holotype: K (K000820113)).





**Figure 5.** Species of *Coleus* 2. **A** *Coleus maculosus* subsp. *lanatus* (Photo: Vincent Droissart) **B** *C. mirabilis* (Photo: David Goyder) **C** *C. porphyranthus* (Photo: Neil Crouch) **D** *C. orthodontus* (Photo: Bart Wursten) **E** *C. tenuicaulis* (Photo: Ernst van Jaarsveld) **F** *C. strobilifer* (Photo: Naiyana Tetsana).



**Distribution.** S. India, Sri Lanka.

***Coleus mannii* Hook.f., J. Proc. Linn. Soc., Bot. 7: 211. 1864**

*Majana mannii* (Hook.f.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Solenostemon mannii* (Hook.f.) Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 422. 1900.

*Plectranthus occidentalis* B.J.Pollard, Kew Bull. 60: 146. 2005. Type: Mt Cameroon, Mann 1967 (holotype: K).

*Solenostemon cymosus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 422. 1900. Type: Cameroon, Mt. Cameroon, Mann 1251 (holotype: K).

*Coleus giorgii* De Wild., Bol. Soc. Ibér. Ci. Nat. 19: 120. 1920.

*Solenostemon giorgii* (De Wild.) Champl., Syst. Geogr. Pl. 69: 16. 1999. Type: DRC, Likimi, De Giorgi 1511 (BR: lectotype, designated by Champluvier & Dowsett-Lemaire (1999)). *synon. nov.*

**Distribution.** W. Trop. Africa to DRC and Sudan.

***Coleus marrubatus* (J.K.Morton) A.J.Paton, *comb. nov.***

urn:lsid:ipni.org:names:77201136-1

*Plectranthus marrubatus* J.K.Morton, Kew Bull. 53: 997. 1998 publ. 1999. Type: Ethiopia, Mega, Gillett 14206 (holotype: K; isotype: FT).

**Distribution.** S. Ethiopia to N. Kenya.

***Coleus megacalyx* (A.J.Paton) A.J.Paton, *comb. nov.***

urn:lsid:ipni.org:names:77201137-1

*Plectranthus megacalyx* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 316. 2009. Type: Tanzania, Rungwe District: Ngozi, Geilinger 2884 (holotype: K).

**Distribution.** SW. Tanzania to E. Zambia.

***Coleus megadontus* (P.I.Forst.) P.I.Forst., *comb. nov.***

urn:lsid:ipni.org:names:77201138-1

*Plectranthus megadontus* P.I.Forst., Austrobaileya 4: 181. 1994. Type: Australia, Queensland, Cook District, Rocky River Scrub, eastern fall of McIlwraith Range,

16 June 1992, P.I.Forster PIF10637A, M.C.Tucker & G.Kenning (holotype: BRI; isotypes: CNS, K, L, MEL).

**Distribution.** Australia: Queensland.

***Coleus melleri* (Baker) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201145-1

*Plectranthus melleri* Baker, J. Bot. 20: 243. 1882. Type: Madagascar, between Toamasina (Tamatave) and Antananarivo, July–August 1862, Meller s.n. (holotype: K).

*Plectranthus luteus* Gürke, Bot. Jahrb. Syst. 28: 468. 1900.

*Coleus luteus* (Gürke) Staner, Bull. Agric. Congo Belge 25: 426. 1934. Type: Tanzania, Morogoro District: SE Uluguru Mts, Stuhlmann 8790 (holotype: B, destroyed).

*Coleus entebbensis* S.Moore, J. Bot. 44: 89. 1906. Type: Uganda, Mengo District: Entebbe, Bagshawe 701 (holotype: BM).

**Distribution.** Liberia, Gabon, Uganda to S. Trop. Africa, Madagascar.

***Coleus meyeri* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201139-1

*Pycnostachys meyeri* Gürke, Abh. Königl. Akad. Wiss. Berlin 1891: 362. 1892. Type: Tanzania, Kilimanjaro, Rua stream, Meyer 279 (holotype: B, destroyed).

*Pycnostachys volkensii* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 344. 1895. Type: Tanzania, Kilimanjaro, Mawenzi, Volkens 823 (lectotype: K, designated by Bramley in Paton et al. (2009); isolectotype: BM).

*Pycnostachys oblongifolia* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 385. 1900. Type: Uganda, Toro District: Ruimi (Wimi) Valley, Scott Elliot 7883 (lectotype: K, designated by Bruce (1940)).

*Pycnostachys bowalensis* A.Chev., J. Bot. (Morot) 22: 126. 1909. Type: Guinea, Conakry, Fouta-Djalon, Kala, Diaguissa, Oct. 1907, A. Chevalier 18853 (holotype: P; isotype: K).

*Pycnostachys longiacuminata* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 76. 1921. Type: Ethiopia, Sidamo, Lake Abassa, (?Lake Margharita), Dec. 1900, Ellenbeck 1728a (holotype: B, destroyed).

*Pycnostachys longibracteata* De Wild., Pl. Bequaert. 4: 388. 1928. Type: DRC, Ruwenzori, Lanuri Valley, Bequaert 4490 (holotype: BR; K fragment).

*Pycnostachys ovoideoconica* De Wild., Pl. Bequaert. 4: 396. 1928. Type: DRC, Mukule-Mokoto, Bequaert 6325 (holotype: BR; K, fragment).

**Distribution.** W. Trop. Africa to Ethiopia and Tanzania.

***Coleus minor* (J.K.Morton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201140-1

*Solenostemon minor* J.K.Morton, J. Linn. Soc., Bot. 58: 271. 1962. Type: Nigeria, West Kagoro Hills, Jos Plateau, Killick 15 (holotype: K).

*Plectranthus decumbens* Hook.f., J. Proc. Linn. Soc., Bot. 7: 210. 1864., non *Coleus decumbens* Gürke.

*Solenostemon decumbens* (Hook.f.) Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 421. 1900.

*Calchas decumbens* (Hook.f.) P.V.Heath, Calyx 5: 160. 1997. Type: Cameroon, Mt Cameroon, Mann 2002 (holotype: K).

**Distribution.** WC. Trop. Africa.

***Coleus minutiflorus* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201141-1

*Plectranthus minutiflorus* Ryding, Nordic J. Bot. 20: 43. 2000. Type: Ethiopia, Sidamo, ± 35 km from the main road Yabelo–Mega, on road to Arero, Friis, Bidgood, L. & W. Malaku & Gashaw 8374 (holotype: C; isotypes: ETH, K).

**Distribution.** Ethiopia to N. Kenya.

***Coleus minutus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201142-1

*Plectranthus minutus* P.I.Forst., Austrobaileya 3: 734. 1992. Type: Australia, Queensland, Cook District, Mount Muligan, c 40 km NW of Dimbulah, c. 0.5 km SE of Dam on top of mountain, 17 April 1985, J.R.Clarkson 5902 (holotype: BRI; isotypes: CNS, MEL).

**Distribution.** Australia: Queensland.

***Coleus mirabilis* Briq., Bot. Jahrb. Syst. 19: 183. 1894**

Fig. 5B

*Coleus mirabilis* var. *hypisodontus* Briq., Bot. Jahrb. Syst. 19: 184. 1894., nom. inval.

*Ascocarydion mirabile* (Briq.) G.Taylor, J. Bot. 69(suppl. 2): 162. 1931.

*Burnatastrum mirabile* (Briq.) P.V.Heath, Calyx 4: 175. 2001.



*Plectranthus mirabilis* (Briq.) Launert, Mitt. Bot. Staatssamml. München 7: 299. 1968.

Type: Angola, Malanje (Malandsche), Mar. 1880, Mechow 489 (lectotype: Z isolectotype: W; designated by Codd (1975)).

*Coleus mirabilis* var. *buchnerianus* Briq., Bot. Jahrb. Syst. 19: 184. 1894. Types: Angola, Moma, N of Malanje (Malandsche), Buchner 81, 82, 83, 84 & 85 (syntypes: B, destroyed).

*Coleus mirabilis* var. *mecjowianus* Briq., Bot. Jahrb. Syst. 19: 184. 1894. Type: Angola, Lumsuneja stream, between Malanje (Malandsche) and Cuango (Quango) rivers, June 1880, Mechow s.n. (isotype: Z).

*Coleus mirabilis* var. *poggeanus* Briq., Bot. Jahrb. Syst. 19: 184. 1894. Type: Congo, R.Lulua, 9°30'S, Pogge 350 (holotype: B, destroyed).

*Coleus leucophyllus* Baker, Bull. Misc. Inform. Kew 1895: 292. 1895. Type: Zambia, near Mwero, W of Lake Tanganyika, 1894, Carson 26 (holotype: K).

**Distribution.** S. DRC to NE. Namibia.

***Coleus mirus* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201143-1

*Plectranthus mirus* S.T.Blake, Contr. Queensland Herb. 9: 22. 1971. Type: Australia, Queensland, White Cliff Point NW of Cairns, 21 May 1962, S.T.Blake 21791 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus mitis* (R.A.Clement) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201144-1

*Anisochilus mitis* R.A.Clement, Edinburgh J. Bot. 50: 35. 1993. Type: Bhutan, Khoma, open spaces, 1219 m, 21 July 1949, Ludlow, Sherriff & Hicks 20927 (holotype: BM).

**Distribution.** E. Himalaya.

***Coleus modestus* (Baker) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929**

*Plectranthus modestus* Baker, Bull. Misc. Inform. Kew 1895: 72. 1895.

*Englerastrum modestum* (Baker) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 76. 1924. Type: Zambia, Mbala District: Tanganyika Plateau, 1889, Carson s.n. (holotype: K).

**Distribution.** SW. Tanzania to Zambia.

***Coleus mollis* Benth. in A.P.de Candolle, Prodr. 12: 77. 1848**

*Plectranthus crameri* R.H.Willemse, Blumea 25: 510. 1979. Type: Ceylon, Walker s.n., in Hb. Benth. (lectotype: K (K000820116), designated by Cramer (1978)).

**Distribution.** Sri Lanka.

***Coleus monostachyus* (P.Beauv.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201146-1

*Ocimum monostachyum* P.Beauv., Fl. Oware 2: 60. 1818.

*Plectranthus palisotii* Benth., Labiat. Gen. Spec.: 39. 1832., nom. illeg.

*Solenostemon monostachyus* (P.Beauv.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 359. 1897.

*Solenostemon ocymoides* var. *monostachyus* (P.Beauv.) Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 421. 1900.

*Plectranthus monostachyus* (P.Beauv.) B.J.Pollard, Kew Bull. 56: 980. 2001. Type: Benin, Palisot de Beauvois s.n. (holotype: G).

***Coleus monostachyus* (P.Beauv.) A.J.Paton subsp. *monostachyus***

*Solenostemon ocymoides* Schumach. & Thonn. in C.F.Schumacher, Beskr. Guin. Pl.: 271. 1827.

*Coleus africanus* Benth., Labiat. Gen. Spec.: 54. 1832., nom. illeg.

*Solenostemon africanus* Briq., Bot. Jahrb. Syst. 19: 181. 1894. Type: “Guinea”, Thonning 92 (lectotype: C, designated by Pollard & Paton (2001); Isert & Thonning herbarium, microf. 102: III. 7).

*Solenostemon monostachyus* var. *amplifrons* Briq., Bull. Herb. Boissier, sér. 2, 6: 826. 1906. Type: DRC, Bangala, 26 May 1888, Hens Ser. C 33 (holotype: Z).

*Solenostemon godefroyae* N.E.Br., Bot. Mag. 139: t. 8511. 1913. Type: illustration cited above (lectotype: illustration designated here).

*Coleus godefroyae* Godfroy-Lebeuf, Cat Pl. Nouv.: 2 1903. Type: not seen. Protologue of *S. godefroyae* suggests the name *C. godefroy* exists (with drawing), but this manuscript has not been seen.

**Distribution.** W. Trop. Africa to S. Chad and Cabinda.

***Coleus monostachyus* (P.Beauv.) A.J.Paton subsp. *marrubiifolius* (Brenan)  
A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201147-1

*Solenostemon monostachyus* var. *marrubiifolius* Brenan, Kew Bull. 5: 231. 1950.

*Solenostemon monostachyus* subsp. *marrubiifolius* (Brenan) J.K.Morton, J. Linn. Soc., Bot. 58: 272. 1962.

*Plectranthus monostachyus* subsp. *marrubiifolius* (Brenan) B.J.Pollard, Kew Bull. 56: 980. 2001. Type: Nigeria, Ondo Province, Carter's Peak, Idanre Hills, Keay FHI 22585 (holotype: K).

*Solenostemon gouanensis* A.Chev., Explor. Bot. Afrique Occ. Franç. 1: 517. 1920., nom. nud.

**Distribution.** W. & WC. Trop. Africa.

***Coleus monostachyus* (P.Beauv.) A.J.Paton subsp. *perennis* (J.K. Morton)  
A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201148-1

*Solenostemon monostachyus* (P.Beauv.) Briq subsp. *perennis* J.K.Morton, J. Linn. Soc., Bot. 58: 272. 1962.

*Plectranthus monostachyus* (P.Beauv.) Briq subsp. *perennis* (J.K.Morton) B.J.Pollard, Kew Bull. 56: 981. 2001. Type: Ghana, Northern Province, Damongo Scarp, Morton A1242 (holotype: GC, not seen).

**Distribution.** Sierra Leone, Ivory Coast, Ghana and Nigeria.

***Coleus mutabilis* (Codd) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201149-1

*Plectranthus mutabilis* Codd, Bothalia 11: 404. 1975. Type: South Africa, Transvaal, Pietersburgh District, farm Bulbul, eastern end of Blouberg, Codd 7953 (holotype: PRE).

**Distribution.** South Africa: Northern Prov.

***Coleus myrianthellus* Briq., Mém. Soc. Bot. France 8: 290. 1917**

*Coleus myrianthellus* Briq., Mém. Soc. Bot. France 8: 290. 1917. Type: Central African Republic, Gribingui, bassin de la Moyenne Kododo, 29 Nov. 1902, Chevalier 6454 (holotype: P).



**Distribution.** Central African Republic.

**Notes.** Related to *C. splendidus*. A revision of this group is required.

***Coleus namuliensis* E.Downes & I.Darbysh., *Blumea* 62: 169. 2017**

*Coleus namuliensis* E.Downes & I.Darbysh., *Blumea* 62: 169. 2017. Type: Mozambique, Zambezia Province, Mt Namuli, small peak 5 km west of highest peak, Harris 237 (holotype: K (K000962083); isotype K(K000962089), LMA).

**Distribution.** Mozambique.

***Coleus neochilus* (Schltr.) Codd, *Bothalia* 7: 432. 1961**

*Plectranthus neochilus* Schltr., *J. Bot.* 34: 394. 1896. Type: South Africa, Mpumalanga, Rimero Creek near Baberton, 1890, Galpin 968 (holotype: K; isotypes: BOL, GRA, NH).

*Coleus schinzii* Gürke, *Bull. Herb. Boissier* 6: 555. 1898. Type: Namibia, Ovambo-land, Tsumeb, Schinz 56 (holotype: Z).

*Coleus palliolatus* S.Moore, *J. Bot.* 38: 464. 1900. Type: Zimbabwe, Bulawayo, Jan.1898, Rand 144 (holotype: BM).

**Distribution.** S. Trop. & South Africa.

***Coleus nepetifolius* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201150-1

*Pycnostachys nepetifolia* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 383. 1900. Type: Kenya, Nandi/North Kavirondo District: Nandi Range, Scott Elliot 6471 (holotype: K; isotype: BM).

**Distribution.** Kenya.

***Coleus niamniamensis* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201151-1

*Pycnostachys niamniamensis* Gürke, *Bot. Jahrb. Syst.* 22: 145. 1895. Type: Sudan, Niamniam, east of R. Huuh, Schweinfurth 3750a (holotype: B, destroyed; isotype: UPS, K, fragment).

*Pycnostachys decussata* Baker in D.Oliver & auct. suc. (eds.), *Fl. Trop. Afr.* 5: 382. 1900. Type: Kenya, 'Kavirondo', Scott Elliot 7155 (holotype: K).

*Pycnostachys petherickii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 383. 1900. Type: Sudan, White Nile, Petherick s.n. (holotype: K).

*Pycnostachys lindblomii* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 24. 1930. Type: Kenya, North Kavirondo District: Elgon, Kitosh, Lindblom s.n. (holotype: S; K, fragment).

**Distribution.** Sudan to Kenya.

***Coleus nigericus* (Alston) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201152-1

*Englerastrum nigericum* Alston, Bull. Misc. Inform. Kew 1926: 298. 1926. Type: Nigeria, Northern Nigeria, Katagum District, Dalziel 109 (holotype: K).

*Plectranthus denudatus* A.Chev. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 288. 1931.

*Coleus denudatus* (A.Chev. ex Hutch. & Dalziel) Robyns, Mem. Inst. Roy. Colon. Belge, Sect. Sci. Nat. (4°): 50. 1936. Type: Senegal, Diola (Casamance), Flory-Feygan, Chevalier 2815 (holotype: P).

**Distribution.** W. Trop. Africa.

**Notes.** Non *C. nigericus* A.Chev., nom. nud.

***Coleus nitidus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201153-1

*Plectranthus nitidus* P.I.Forst., Austrobaileya 3: 736. 1992. Type: Australia, New South Wales, cultivated at Byron Bay, from plant collected at Terania Creek, Nightcap Range, P. Hardwick s.n. (holotype: BRI; isotypes: CNS, K, L, MEL, NSW).

**Distribution.** E. Australia.

***Coleus niveus* (Hiern) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201154-1

*Solenostemon niveus* Hiern, Cat. Afr. Pl. 1: 864. 1900 (August). Type: Angola, Bumbo, Sierra de Xella, Welwitsch 5619 (holotype: LISU; isotype: BM).

*Coleus orbicularis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 437. 1900. (December). Type: Angola, Benguela Prov., Welwitsch 5619, (holotype: K).

**Distribution.** Angola.

***Coleus nyikensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 439. 1900**

*Plectranthus malawiensis* B.Mathew, Kew Bull. 31: 174. 1976. Type: Malawi, Nyika Plateau, July 1896, Whyte s.n. (holotype: K).

**Distribution.** SE. Kenya to N. Zambia.

***Coleus omissus* (P.I.Forst) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201155-1

*Plectranthus omissus* P.I.Forst., Austrobaileya 3: 731. 1992. Type: Australia, Queensland, Wide Bay District, Mudlow Gap, Beauty Spot 11, Timber reserve 26, 8 km N of Kilkivan, 21 Feb. 1989, P.I. Forster PIF4977 (holotype: BRI; isotypes: CANB, K, MO).

**Distribution.** Australia: Queensland.

***Coleus orthodontus* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201156-1

Fig. 5D

*Pycnostachys orthodonta* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895. Type: Mozambique, Manica, near Catandica (Gouveia), 1884, Carvalho s.n. (holotype: B, destroyed; isotypes: COI, K frag.).

*Pycnostachys cyanea* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895. Type: Tanzania, Mpwapwa, Tubugwe, Stuhlmann 213 (lectotype: B, destroyed; designated by Bramley in Paton et al. (2009)).

*Pycnostachys leptophylla* Baker, Bull. Misc. Inform. Kew 1898: 161. 1898. Type: Malawi, Shire Highlands, 1891, Buchanan 873 (lectotype: K; designated by Bramley in Paton et al. (2009)).

*Pycnostachys hanningtonii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 384. 1900. Type: Tanzania, Dodoma Dist., Ugogo, n.d., Hannington s.n. (holotype: K).

*Pycnostachys bussei* Gürke, Bot. Jahrb. Syst. 36: 131. 1905. Type: Tanzania, Lindi Dist., near Nguya, n.d., Busse 2834 (holotype: B, destroyed; isotypes: BR, K frag.).

**Distribution.** Tanzania to S. Trop. Africa.



***Coleus otostegoides* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201157-1

*Capitania otostegoides* Gürke, Bot. Jahrb. Syst. 21: 106. 1895.*Plectranthus otostegoides* (Gürke) Ryding, Kew Bull. 54: 126. 1999. Types: Eritrea, upper Lebka valley, Heuglin s.n. (syntype: B, destroyed) & Müller-Proske-Capitany s.n. (syntype: B, destroyed) & Tanzania, Kilimanjaro, Volkens 492 (syntype: B, destroyed); neotype: Tanzania, Arusha District: Ngaserai Plain, Richards & Arasululu 26472 (neotype: K, designated by Ryding (1999)).**Distribution.** NE. Trop. Africa to N. Tanzania.***Coleus pallidus* (Wall.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201158-1

*Anisochilus pallidus* Wall., Pl. Asiat. Rar. 2: 18. 1830. Type: Burma, Taong Dong, 26 Nov. 1826, Wallich Cat. 2754, (lectotype: K (K000674759); isoelectotypes: G-DC, K-W (K001117031), designated by Suddee and Paton (2009)).**Distribution.** Nepal to SC. China and Indo-China.***Coleus paniculatus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 16. 1830***Majana paniculata* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.*Solenostemon paniculatus* (Benth.) Guillaumet & A.Cornet, Adansonia, n.s., 15: 525. 1976. Type: India, Dindygul, Herb. Wight in Wall. Cat. 2734 (syntypes: K (K000820126); K-W(K001116978)).*Coleus glabratus* Benth., Labiat. Gen. Spec.: 58. 1832.*Plectranthus glabratus* (Benth.) Alston in H.Trimen, Handb. Fl. Ceylon 6(suppl.): 236. 1931. Type: India, Madras, Wight s.n. ((holotype: K (K000820127)).*Coleus wightii* Benth., Labiat. Gen. Spec.: 58. 1832. Type: India, Nilgiris, Wight s.n. (holotype: K (K000820125)).*Plectranthus coleoides* Benth. in A.P.de Candolle, Prodr. 12: 64. 1848. Type: India, Nilgiris, Perrottet s.n. (syntypes: 2 shts. G-DC; isosyntype: K (K000820123), P (P00720715)).*Plectranthus bernardii* Doan in H.Lecomte, Fl. Indo-Chine 4: 949. 1936 nom. inval. no Latin descr.**Distribution.** S. India to S. Indo-China.

***Coleus parishii* (Hook.f.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201159-1

*Plectranthus parishii* Hook.f., Fl. Brit. India 4: 622. 1885. Type: Burma, Tenasserim, Moulmein, Parish 444 (holotype: K).

*Calamintha esquirolii* H.Lév., Repert. Spec. Nov. Regni Veg. 8: 450. 1910.

*Coleus esquirolii* (H.Lév.) Dunn, Notes Roy. Bot. Gard. Edinburgh 8: 158. 1913. Type: China, Kweichow, Shin-gny-hien, chemin pierreux de Sy-Koua-Tong, Nov. 1906, Esquirol 1058 (holotype: E).

*Coleus mucosus* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 30(1): 225. 1911. Types: Kodensho, Oct. 1906, Kawakami & Mori 1755 (TI: syntype); Kashito, Aug. 1905, Nakahara 302 (TI: syntype); Banchoryo, Oct. 1905, Nakahara 582, Oct. 1905 (TI: syntype); Kodensho, Oct. 1905, Nagasawa 764 (TI: syntype)

**Distribution.** Myanmar to SC. China and Taiwan.

**Notes.** See Suddee et al. (2004) for discussion of *C. mucosus*.

***Coleus parvicalyx* (A.J.Paton) A.J.Paton, comb.nov.**

urn:lsid:ipni.org:names:77201160-1

*Plectranthus parvicalyx* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 316. 2009. Type: Tanzania, Rungwe District: Kiejo Volcano, Hepper, Field & Mhorro 5389 (holotype: K).

**Distribution.** SW. Tanzania.

***Coleus penicillatus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201161-1

*Plectranthus penicillatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 325. 2009. Type: Zambia, Mbuzi–Kaluza, Greenway & Trapnell 5627 (holotype: K).

**Distribution.** S. Tanzania to E. Zambia.

***Coleus pentheri* Gürke, Ann. K. K. Naturhist. Hofmus. 20: 48. 1905**

*Plectranthus pentheri* (Gürke) van Jaarsv. & T.J.Edwards, Bothalia 27: 5. 1997. Type: South Africa, Mpumalanga, Rimer Creek near Baberton, 1890, Galpin 968 (holotype: K; isotypes: BOL, GRA, NH).

**Distribution.** SW. Zimbabwe to South Africa.

***Coleus perrieri* (Hedge) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201162-1

*Plectranthus perrieri* Hedge, Fl. Madag. 175: 199. 1998. Type: Madagascar, Ampan-drandava, Seyrig 637 (holotype: P).

**Distribution.** Madagascar.

***Coleus persoonii* Benth., Labiat. Gen. Spec.: 55. 1832**

*Ocimum paniculatum* Pers., Syn. Pl. 2: 135. 1806, non *Coleus paniculatus* Benth.

*Solenostemon paniculatus* (Pers.) Guillaumet & Cornet, Adansonia n.s., 15: 525. 1976

*Plectranthus persoonii* (Benth.) Hedge, Fl. Madag. 175: 222. 1998. Type: Madagascar, Commerson s.n. (holotype: P).

*Coleus goudotii* Briq., Bull. Herb. Boissier 2: 126. 1894.

*Solenostemon goudotii* (Briq.) Guillaumet & A.Cornet, Adansonia, n.s., 15: 525. 1976. Type: Madagascar, Goudot s.n. (G, holotype).

**Distribution.** Madagascar.

***Coleus petiolatissimus* Briq., Mém. Soc. Bot. France 8: 291. 1917**

*Coleus petiolatissimus* Briq., Mém. Soc. Bot. France 8: 291. 1917. Type: Central African Republic (Bangui), 16 Aug. 1902, Chevalier 5214 bis. (holotype: P).

**Distribution.** Central African Republic.

**Notes.** Related to *P. bojeri*. Complex in need of revision.

***Coleus petraeus* (Backer ex Adelb.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201163-1

*Plectranthus petraeus* Backer ex Adelb., Reinwardtia 3: 152. 1954. Type: Java, Idjin Plateau, Sempolm, Backer 36387 (holotype: L).

**Distribution.** E. Java.



***Coleus petricola* (J.Mathew & B.J.Conn) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201164-1

*Plectranthus petricola* J.Mathew & B.J.Conn, *Telopea* 20: 179. 2017. Type: India: Kerala: Idukki District, 10 km away from Udumbanchola, Chemmannar Hills, 20 Feb 2010, J. Mathew 4417 (holotype: TBGT; isotype: MSSRF).

**Distribution.** India, endemic to Western Ghats.

***Coleus phulangkaensis* (Suddee, Suphuntee & Saengrit) Suddee, comb. nov.**

urn:lsid:ipni.org:names:77201165-1

*Plectranthus phulangkaensis* Suddee, Suphuntee & Saengrit, *Thai Forest Bull., Bot.* 42: 6. 2014 (Dec 2014) Type: Thailand. Nakhon Phanom, Ban Phaeng District, Phu Langka National Park, 9 Oct. 2013, Suddee, Puudjaa, Rueangruea, Kiewbang, Hemrat & Pansamrong 4588 (holotype: BKF; isotypes: BKF).

**Distribution.** Thailand.

***Coleus plantagineus* (Hook.f.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201166-1

*Anisochilus plantagineus* Hook.f., *Fl. Brit. India* 4: 628. 1885. Type: India, Deccan Peninsula, Mysore, Bababoodan Hills, Dalzell s.n. (lectotype: K(K000674770); isolectotype K(K000674771), designated by Suddee & Paton (2009).

**Distribution.** SW. India.

***Coleus platyphyllus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201167-1

*Plectranthus platyphyllus* A.J.Paton, *Fl. Trop. E. Afr., Lamiac.*: 331. 2009. Type: Tanzania, Iringa District: Mafinga (Sao Hill) to Madibira road, Richards 17354 (holotype: K; isotype: EA).

**Distribution.** SW. Tanzania.

***Coleus pobeguinii* Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 291. 1931**

*Leocus pobeguinii* (Hutch. & Dalziel) J.K.Morton, J. Linn. Soc., Bot. 58: 270. 1962.

*Plectranthus pobeguinii* (Hutch. & Dalziel) B.J.Pollard, Kew Bull. 64: 260. 2009. Type: Guinea (Conakry), Kouroussa, Pobéguin 556 (P, lectotype, designated by Pollard and Paton (2009)).

**Distribution.** W. Trop. Africa.

***Coleus polystachys* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201168-1

*Anisochilus polystachyus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 19. 1830.

*Stiptanthus polystachyus* (Benth.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 352. 1897. Type: Nepal, Hetoundah (Hetauda), 14 Dec. 1820, Wall. Cat. 2755 (lectotype: K (K000674760); isoelectotypes: BM, E, G-DC, K (K000674761), K-W(K001117032), designated Suddee & Paton (2009)).

**Distribution.** Nepal to Bangladesh.

***Coleus porcatus* (van Jaarsv. & P.J.D.Winter) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201169-1

*Plectranthus porcatus* van Jaarsv. & P.J.D.Winter, Bothalia 35: 170. 2005. Type: South Africa, Sekukuniland, N. Leolo Range, Farm de Kamp, P.J.D. Winter 6725 (holotype: PRE; isotype: NBG).

**Distribution.** South Africa: Limpopo (Leolo Mts.).

***Coleus porphyranthus* (T.J.Edwards & N.R.Crouch) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201170-1

Fig. 5C

*Plectranthus porphyranthus* T.J.Edwards & N.R.Crouch, Kew Bull. 55: 459. 2000. Type: Zimbabwe, Masvingo Dist., Richmond Farm, Harare road, 4 km from Masvingo, Dec. 1997, Crouch 800 (holotype: NU; isotypes: E, K, PRE, SRGH).

**Distribution.** S. Zimbabwe.

***Coleus prittwitzii* (Perkins) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201171-1

*Pycnostachys prittwitzii* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 68. 1921. Type: Tanzania, Iringa District: Ndembera flood plain, near Gominyi, Prittwitz & Gaffron 28 (holotype: B, destroyed; K, fragment).

**Distribution.** SW. Tanzania to N. Zambia.

***Coleus prostratus* (Gürke) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201172-1

*Plectranthus prostratus* Gürke, Bot. Jahrb. Syst. 19: 206. 1894. Types: Tanzania, Pangani, Volkens 484 (syntype: B, destroyed; isosyntype: G) & North Mara District: Ukira, Fischer 497 (syntype: B, destroyed).

*Plectranthus quadridentatus* Schweinf. ex Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 409. 1900. Type: Eritrea, Mount Alam Kale, NW of Aidereso, Schweinfurth & Riva 2086 (holotype: K).

*Plectranthus margeritae* Buscal. & Muschl., Bot. Jahrb. Syst. 49: 485. 1913. Type: Neumann Camp (Kenya, but in reality based on material from E or NE Africa and Yemen), von Aosta 1688 (holotype: B, destroyed); neotype: Eritrea, Nefasit, base of Mt Bizen, Ryding et al. 2095 (neotype: C; isoneotypes: ASMU, ETH, UPS, designated by Ryding (2001)).

*Plectranthus ugandensis* Lye, Norweg. J. Bot. 20: 57. 1973, nom. illeg., non *P. ugandensis* S.Moore.

**Distribution.** Yemen, Eritrea to Tanzania.

***Coleus psammophilus* (Codd) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201173-1

*Plectranthus psammophilus* Codd, Bothalia 11: 405. 1975. Type: South Africa, KwaZulu-Natal, Makatini Flats, Jan.1964, Strey 5779 (holotype: PRE; isotypes: BR, K, M, NH).

**Distribution.** Mozambique to N. KwaZulu-Natal.



***Coleus pseudospeciosus* (Buscal. & Muschl.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201174-1

*Pycnostachys pseudospeciosa* Buscal. & Muschl., Bot. Jahrb. Syst. 49: 486. 1913. Type: Zambia, Lake Bangweulu, n.d, D'Aosta 1002 (holotype: B, destroyed; lectotype: K, designated by Ryding (2001)).

*Pycnostachys ballotoides* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 72. 1921. Type: Congo, Katanga, Mt Senga, Kassner 2930a (holotype: B, destroyed).

*Pycnostachys mausaensis* Gürke, Notes Fl. Katanga 7: 47. 1921. Type: Congo, Katanga, Mt Senga, 31.May 1908, Kassner 2920a (holotype: BR; isotype: K).

**Distribution.** S. DRC to N. Zambia.

***Coleus pulchellus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201175-1

*Plectranthus pulchellus* P.I.Forst., Austrobaileya 4: 182. 1994. Type: Australia, Queensland, Cook District, Wasp Gully, Glennie Tableland, 5 Jul. 1991, M.C.Tucker (holotype: BRI (AQ509442); isotype: CNS).

**Distribution.** Australia: Queensland.

***Coleus recurvata* (Ryding) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201176-1

*Pycnostachys recurvata* Ryding, Novon 9: 101. 1999. Type: Ethiopia, 60km W of Ambo along Lekemti (Nekemte) road, W.J.de Wilde & de Wilde-Duyfjes 8754 (holotype: C; isotypes: BR, ETH, K, UPS, WAG).

**Distribution.** Ethiopia.

***Coleus repens* Gürke, Bot. Jahrb. Syst. 19: 213. 1894**

*Solenostemon repens* (Gürke) J.K.Morton, J. Linn. Soc., Bot. 58: 272. 1962.

*Plectranthus epilithicus* B.J.Pollard, Kew Bull. 60: 145. 2005. Type: Kamerun, im Urwald westlich von Buea, Preuss 949 (holotype: B, destroyed); (neotype: Cameroon, Mt Kupe, Nyasoso, nature trail above the Government High School, Pollard 83 (neotype: K; isoneotypes KUPE, WAG YA, designated by Pollard (2005))).

*Coleus carnosus* A.Chev., J. Bot. (Morot) 22: 125. 1909., nom. illeg.

*Coleus carnosus* var. *lamiifolius* A.Chev., Explor. Bot. Afrique Occ. Franç. 1: 518. 1920. nom. illeg.

**Distribution.** W. & WC. Trop. Africa.

***Coleus reticulatus* A.Chev., Mém. Soc. Bot. France 8: 200. 1912**

*Isodictyophorus reticulatus* (A.Chev.) J.K.Morton, J. Linn. Soc., Bot. 58: 272. 1962.

*Plectranthus reticulatus* (A.Chev.) B.J.Pollard, Kew Bull. 67: 49. 2012. Type: Guinée Française, Cercle de Faranah (Faranna), dans la brousse très marécageuse et au bord des petits marigots, entre Kaba et Tonfili, 11 Jan.1909, Chevalier 20393 (holotype: P; isotype: K).

*Isodictyophorus chevalieri* Briq., Mém. Soc. Bot. France 8: 285. 1917. Type: Mali, Sedwhi to Timbuktu, 11–12 Feb. 1900, Chevalier s.n. (holotype: P).

*Coleus casamancicus* A.Chev. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 291. 1931. Type: Senegal, Casamance from Farancounda to Tambanaba, Sedhiou, 12 Feb. 1900, Chevalier 2777b (holotype: P).

**Distribution.** W. Trop. Africa.

***Coleus rhodesianum* (N.E.Br.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201177-1

*Englerastrum rhodesianum* N.E.Br., Bull. Misc. Inform. Kew 1922: 31. 1922. Types: Zambia, Mumbwa, Macaulay 637 (syntype: K); Livingstone, Rogers 7205 (syntype: not seen).

*Englerastrum schweinfurthii* Briq., Bot. Jahrb. Syst. 19: 178. 1894, non *Coleus schweinfurthii* Vatke.

*Coleus englerastrum* Roberty, Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 16: 330. 1954. Type: Sudan, headwaters of Ghasal, Addai, Schweinfurth 2532 (isotypes: K, WU).

*Englerastrum djalonense* A.Chev., J. Bot. (Morot) 22: 126. 1909, non *Coleus djalonensis* A.Chev.

*Plectranthus djalonensis* (A.Chev.) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 286. 2009. Type: Guinea, between Timbo and Kouria, Sept. 1907, Chevalier s.n. (holotype: P; isotype: K).

*Plectranthus piliferus* Chiov., Boll. Soc. Bot. Ital. 1924: 44. 1924. Type: Angola, Mossamedes, Huambo, Mazzocchi-Alemanni (holotype: FT).

*Englerastrum hutchinsonianum* Alston, Bull. Misc. Inform. Kew 1926: 298. 1926. Type: Nigeria, Lokoja, Mt Patti, Dalziel 105 (holotype: K).

*Englerastrum schlechteri* Alston, Bull. Misc. Inform. Kew 1926: 297. 1926., nom. illeg., non. T.C.E.Fr.

**Distribution.** Trop. Africa to Caprivi Strip.

***Coleus robustus* (Hook.f.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201178-1

*Anisochilus robustus* Hook.f., Fl. Brit. India 4: 629. 1885. Type: India, Deccan Peninsula, Courtallum, Herb. Wight 625 (holotype: K (K000674766); isotype: E).

*Anisochilus henryi* K.Ravik. & V.Lakshm., Rheede 9: 72. 1999. Type: India, Tamil Nadu, Theni Distr., near Varaiyaatumottai peak, Venniar Estate, Pachakumatchi hills, 1800 m, 28 May 1989, Lakshmanan & Ravikumar 91078 (holotype: CAL; isotypes: K, MH).

**Distribution.** S. India.

***Coleus rotundifolius* (Poir.) A.Chev. & Perrot, Veg. Ut. Afr. Trop. Franç. 1: 101. 1905**

*Germanea rotundifolia* Poir. in J.B.A.M.de Lamarck, Encycl. 2: 763. 1788.

*Plectranthus rotundifolius* (Poir.) Spreng., Syst. Veg. 2: 690. 1825.

*Solenostemon rotundifolius* (Poir.) J.K.Morton, J. Linn. Soc., Bot. 58: 272. 1962. Type: Mauritius (Ile de France), Commerson s.n. (holotype: P; isotype: FI).

*Nepeta madagascariensis* Lam., Encycl. 1: 712. 1785, non *Coleus madagascariensis* (Benth.) A.Chev. Type: illustration in Rheede, Hortus Mal. 11: 49 t.25. 1692. (lectotype: illustration designated here).

*Plectranthus ternatus* Sims, Bot. Mag. 51: t. 2460. 1824.

*Coleus ternatus* (Sims) A.Chev., Veg. Ut. Afr. Trop. Franç. 1: 109. 1905. Type: specimen of cultivated plant illustrated in Bot. Mag. t. 2460 (lectotype: illustration designated here).

*Plectranthus tuberosus* Blume, Bijdr. Fl. Ned. Ind.: 838. 1826.

*Coleus tuberosus* (Blume) Benth., Labiat. Gen. Spec.: 59. 1832.

*Majana tuberosa* (Blume) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Indonesia, Java, Blume s.n. (holotype: L; isotypes: NY, P).

*Coleus rugosus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 15. 1830. Type: India, Madras, Palamcotta, Herb. Madras, with '*Dracocephalum rugosum*' mss., Wall. Cat. 2760 (holotype: K (no barcode.); isotype: K-W(K001117037)).

*Coleus parviflorus* Benth. in A.P.de Candolle, Prodr. 12: 72. 1848.

*Calchas parviflorus* (Benth.) P.V.Heath, Calyx 6: 51. 1999. Type: South India, Quilon and Panpanassum, Wight 2512 (holotype: K(K000674660); isotype: E).

*Coleus dysentericus* Baker, Bull. Misc. Inform. Kew 1894: 10. 1894. Type: Niger, Zomba region, Barter 846 (holotype: K).

*Coleus salagensis* Gürke, Bot. Jahrb. Syst. 19: 220. 1894. Type: Benin, between Paratau and station Bismarkburg, Kling 199, Buttner 94, 690 (syntypes: not seen).

*Plectranthus coppinii* Heckel, Rev. Cultures Colon. 8: 164. 1900. Type and protologue not seen.

*Coleus rehmannii* Briq., Bull. Herb. Boissier, sér. 2, 3: 1075. 1903. Type: South Africa, Transvaal, Houtbosch, Rehmann 6156 (holotype: Z).



*Coleus pallidiflorus* A.Chev., J. Bot. (Morot) 22: 124. 1909. Type: Guinea, Conakry, Fouta Djalon, Dalaba, Nov. 1907, Chevalier s.n. (holotype: P). Locality of Chevalier 18234 in P and annotated as type, does not match protologue locality.

*Coleus rotundifolius* var. *nigra* A.Chev., Explor. Bot. Afrique Occ. Franç. 1: 520. 1920. Type: Ivory Coast, Haute sassandra, Pays Dyolas, village de Man, 13 May 1909, Chevalier 21532 (holotype: P).

**Distribution.** Tropical Asia, cultivated elsewhere.

***Coleus ruandensis* (De Wild.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201179-1

*Pycnostachys ruandensis* De Wild., Pl. Bequaert. 4: 401. 1928. Type: Rwanda, between Kirinda and Lubengera, Robyns 2449 (holotype: BR).

*Pycnostachys clinodon* Mildbr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 405. 1932. Type: Tanzania, Njombe District: Lupembe, Schlieben 1053 (holotype: B, destroyed; isotypes: BM, BR, K, fragment).

**Distribution.** Uganda, Burundi, Rwanda, DRC and Malawi.

***Coleus rutenbergianus* (Vatke) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201180-1

*Plectranthus rutenbergianus* Vatke, Abh. Naturwiss. Vereins Bremen 9: 135. 1885.

*Solenostemon rutenbergianus* (Vatke) Guillaumet & A.Cornet, Adansonia, n.s., 15: 524. 1976. Type: Madagascar, Nahe des Itasi Sees, 19 Dec. 1877, Rütenberg s.n. (holotype: B, destroyed).

**Distribution.** Madagascar.

***Coleus sahyadricus* (Smitha & Sunojk.) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201181-1

*Plectranthus sahyadricus* Smitha & Sunojk., Phytotaxa 345 (2): 166. 2018. Type: India. Kerala: Idukki district, Munnar, Lockhart Gap view point, 21 Sept. 2015, Smitha & Sunojkumar 135456 (holotype: CALI).

**Distribution.** S. India.

***Coleus sallyae* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201182-1

*Plectranthus sallyae* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 275. 2009. Type: Tanzania, Ufipa District: Nkansi, 15 km on Kipili–Namanyere road, Bidgood, Mbago & Vollesen 2661 (holotype: K(K000431951); isotypes: K (K000431952), BR, C, DSM, EA, NHT, UPS).

**Distribution.** SW. Tanzania.

***Coleus sanguineus* (Britten) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201183-1

*Plectranthus sanguineus* Britten, Trans. Linn. Soc. London, Bot. 4: 36. 1894. Type: Malawi, Mulanje, Dec.1891, Whyte 46 (holotype: BM; isotypes: G, K).

**Distribution.** S. Trop. Africa.

***Coleus saxorum* (J.Mathew, Yohannan & B.J.Conn) Smitha, comb. nov.**

urn:lsid:ipni.org:names:77201184-1

*Plectranthus saxorum* J.Mathew, Yohannan & B.J.Conn, Telopea 20: 187. 2017. Type: India, Kerala, Kozhikode District, Vellarimala, 10 km away from Muthappanpuzha, 30 Jan. 2015, J.Mathew 4911 (holotype: TBGT; isotype, MSSRF).

**Distribution.** India, endemic to Western Ghats.

***Coleus scaber* (Benth.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201185-1

*Anisochilus scaber* Benth. in A.P.de Candolle, Prodr. 12: 81. 1848. Type: India, Deccan Peninsula, Courtallum, Herb. Wight 2520 (holotype: K (K000674680); isotypes E, K (K000674681).

**Distribution.** S. India.

***Coleus scandens* Gürke, Abh. Königl. Akad. Wiss. Berlin 1894: 51. 1894**

*Englerastrum scandens* (Gürke) Alston, Bull. Misc. Inform. Kew 1926: 299. 1926.

*Plectranthus scandens* (Gürke) R.H.Willemse, Blumea 25: 510. 1979. Types: Tanzania, Lushoto District: Msinga to Kwa Mshusa, Holst 9119 (syntype: B, destroyed; isosyntype: K) & 9120a (syntype: B, destroyed; isosyntypes: G, JE, K, W).

**Distribution.** Kenya to N. Tanzania.

***Coleus scebeli* Chiov., Fl. Somala 1: 2. 1929**

*Plectranthus scebeli* (Chiov.) Ryding, Kew Bull. 54: 125. 1999. Type: Somalia, Shabeellaha Dhexe Rguion, between Ganale and Audegle, Puccioni & Stafanini 48 (holotype: FT).

**Distribution.** S. Somalia.

***Coleus schizophyllus* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201186-1

*Plectranthus schizophyllus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 414. 1900.

*Calchas schizophyllus* (Baker) P.V.Heath, Calyx 6: 51. 1999. Type: Malawi, between Khondowe and Karonga, Whyte 376 (holotype: K).

**Distribution.** SW. Tanzania to N. Malawi.

***Coleus schliebenii* (Mildr.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201187-1

*Pycnostachys schliebenii* Mildbr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 405. 1932.

Type: Tanzania, Njombe District: Lupembe, Schlieben 713 (holotype: B, destroyed; isotypes: BR, Z; K, fragment).

**Distribution.** Tanzania to Zambia.

***Coleus scruposus* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201188-1

*Pycnostachys kassneri* De Wild., Contr. Fl. Katanga: 172 1921., non *Coleus kassneri* Robyns & Lebrun. Type: DRC, Katanga, West Kundelungu, Kassner 2794 (holotype: BR; isotypes: BM, K).



*Pycnostachys carigensis* Gürke, Ann. Mus. Congo Belge, Bot., sér. 4, 2: 135. 1913., nom. nud.

**Distribution.** Tanzania to Zambia.

***Coleus scutellarioides* (L.) Benth. in N.Wallich, Pl. Asiat. Rar. 2: 16. 1830**

*Ocimum scutellarioides* L., Sp. Pl. ed. 2: 833. 1763.

*Plectranthus scutellarioides* (L.) R.Br., Prodr. Fl. Nov. Holl.: 506. 1810.

*Plectranthus aromaticus* Roxb., Hort. Bengal.: 45. 1814.

*Majana scutellarioides* (L.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Solenostemon scutellarioides* (L.) Codd, Bothalia 11: 439. 1975.

*Calchas scutellarioides* (L.) P.V.Heath, Calyx 6: 51. 1999. Type: *Majana* (alba et rubra) Rumphius, Herb. Amboin. 5: 291, t. 101. 1747, (lectotype: illustration designated by Merrill (Interpr. Rumph. Herb. Amboin.: 460 1917)).

*Polypodium ovatum* Burm. f., Fl. Ind.: 233. 1768. Type: Java, Unknown collector (holotype: G).

*Germanea nudiflora* Poir. in J.B.A.M.de Lamarck, Encycl. 2: 763. 1788.

*Plectranthus nudiflorus* (Poir.) Willd., Sp. Pl. 3: 168. 1800. Type: Amboina, Willdenow Herbarium 11079.1 & 11079.2 (syntypes: B-W).

*Ocimum peltatum* Schweigg. ex Schrank, Denkschr. Königl.-Baier. Bot. Ges. Regensburg 2: 55. 1822. Type: Cultivated from seed collected by Martius in Brazil (type: not seen).

*Plectranthus ingratus* Blume, Bijdr. Fl. Ned. Ind.: 836. 1826.

*Coleus ingratus* (Blume) Benth., Labiat. Gen. Spec.: 53. 1832.

*Coleus scutellarioides* var. *ingratus* (Blume) Miq., Fl. Ned. Ind. 2: 950. 1858. Type: Indonesia, Java, G. Parang, Blume 992 (lectotype: L, designated by Keng (1969)).

*Plectranthus laciniatus* Blume, Bijdr. Fl. Ned. Ind.: 838. 1826.

*Coleus laciniatus* (Blume) Benth., Labiat. Gen. Spec.: 56. 1832.

*Coleus scutellarioides* var. *laciniatus* (Blume) Miq., Fl. Ned. Ind. 2: 950. 1858. Type: Indonesia, Java, Blume s.n. (lectotype: L, designated by Keng (1969)).

*Plectranthus scutellarioides* Blume, Bijdr. Fl. Ned. Ind.: 837. 1826., nom. illeg.

*Coleus blumei* Benth., Labiat. Gen. Spec.: 56. 1832.

*Coleus scutellarioides* var. *blumei* (Benth.) Miq., Fl. Ned. Ind. 2: 950. 1858.

*Majana scutellarioides* var. *blumei* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Solenostemon blumei* (Benth.) M.Gómez, Bol. Secr. Agric. Comerc. Trab., Cuba 22: 127. 1914.

*Plectranthus blumei* (Benth.) Launert, Mitt. Bot. Staatssamml. München 7: 301. 1968. Type: Indonesia, Java, Blume s.n. (lectotype: L, designated by Suddee et al. (2004)).

*Coleus atropurpureus* Benth. in N.Wallich, Pl. Asiat. Rar. 2: 16. 1830.

*Majana scutellarioides* var. *atropurpureus* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Calchas atropurpureus* (Benth.) P.V.Heath, Calyx 5: 160. 1997. Type: Singapore, Wall. Cat. 2733A (syntypes: K (no barcode), K-W (K001116976)).

- Coleus atropurpureus* var. *ramosus* Benth. in N. Wallich, Pl. Asiat. Rar. 2: 16. 1830. Type: Malaysia, Penang, Wall. Cat. 2733B (syntypes: G-DC(microfiche), K-W (K001116976)).
- Coleus acuminatus* Benth., Linnaea 6: 81. 1831.
- Majana acuminata* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.
- Calchas acuminatus* (Benth.) P.V. Heath, Calyx 5: 160. 1996. Type: Philippines, Island of Samar, 1841, Cuming 1683 (neotype: K (K000897809), neotype designated by Suddee et al. 2004; isoneotypes: BM, K (K000897810), P, TCD).
- Coleus atropurpureus* var. *densiflorus* Benth., Labiat. Gen. Spec.: 54. 1832. Type: Philippines, Manila, 1830, Chamisso s.n. (syntype: K (K000897808)).
- Coleus grandifolius* Benth., Labiat. Gen. Spec.: 53. 1832.
- Majana grandifolia* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.
- Coleus scutellarioides* var. *grandifolius* (Benth.) Keng, Gard. Bull. Singapore 24: 58. 1969. Type: Timor, Guichenot s.n. (syntype P; isosyntypes: K, L, G-DC).
- Coleus multiflorus* Benth., Labiat. Gen. Spec.: 55. 1832.
- Majana multiflora* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Philippines, Manila, Perrottet s.n. (holotype: P).
- Coleus secundiflorus* Benth., Labiat. Gen. Spec.: 55. 1832.
- Majana secundiflora* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Timor, Guichenot s.n. (holotype: P).
- Coleus grandifolius* Blanco, Fl. Filip.: 482. 1837., nom. illeg.
- Coleus blancoi* Benth. in A.P. de Candolle, Prodr. 12: 79. 1848.
- Majana blancoi* (Benth.) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Philippines, Blanco, s.n. (type: not seen).
- Coleus pumilus* Blanco, Fl. Filip.: 482. 1837.
- Majana pumila* (Blanco) Kuntze, Revis. Gen. Pl. 2: 524. 1891. Type: Philippines, Barrio of Pineda, Pasig, Rizal Province, Luzon, Oct. 1914, Merrill: Species Blancoanae No. 190 (neotype: K, designated by Suddee et al. (2004)).
- Coleus atropurpureus* var. *javanicus* Benth. in A.P. de Candolle, Prodr. 12: 74. 1848. Type: Indonesia, Java, Zollinger 138 (syntypes: G-DC, K).
- Coleus blumei* var. *pectinatus* C. Morren, Belgique Hort. 6: 99. t 18. 1856. Type: Cultivated in Liege, illustration cited above (lectotype: illustration designated here).
- Coleus scutellarioides* var. *celebicus* Miq., Fl. Ned. Ind. 2: 950. 1858. Type: Indonesia, Celebes, Reinwardt s.n. (type: not seen).
- Coleus scutellarioides* var. *gracilis* Miq., Fl. Ned. Ind. 2: 950. 1858. Type: Indonesia, Ceram, Bangka, Miquel (type: not seen).
- Perilla nankinensis* Wender., Linnaea 29: 726. 1859, nom. illeg., non *P. nankinensis* (Lour.) Decne.
- Coleus verschaffeltii* Lem., Ill. Hort. 8: t. 293. 1861. Type: based on cultivated plants from Java, illustration cited above (lectotype: illustration, designated by Suddee et al. 2004).
- Coleus marmoratus* W. Bull., Proc. Roy. Hort. Soc. London 4: 133. 1864.
- Coleus verschaffeltii* var. *marmoratus* (W. Bull.) André, Pl. Feuill. Ornem.: 144. 1866. Type: not seen.

- Coleus gibsonii* Verl., Veitch & Sons in Gard. Chron. 1866: 432 (12 May 1866). Rev. Hort. (Paris) 37: 279. 1866 (July 1866). Type: Cultivated in London, sent by John Veitch from New Caledonia. (type: not seen).
- Coleus veitchii* Dombrain, Fl. Mag. (London) 6: t. 345. 1867. Type: Cultivated in London, sent by John Veitch from New Caledonia, illustration cited above (lectotype: illustration, designated here).
- Coleus batemannii* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus bausei* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus berkeleyi* T.Moore, Gard. Chron. 1868: 376. 1868. Type: not seen.
- Coleus clarkii* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus dixii* T.Moore, Gard. Chron. 1868: 376. 1868. Type: not seen.
- Coleus marshallii* T.Moore, Gard. Chron. 1868: 376. 1868.
- Coleus blumei* var. *marshallii* (T.Moore) Rothsch., Pl. Feuill. Col., 2: 74. t. 37. 1869. Type: Illustration cited above (lectotype: illustration, designated here).
- Coleus murrayi* T.Moore, Gard. Chron. 1868: 377. 1868.
- Coleus blumei* var. *murrayi* (T.Moore) Rothsch., Pl. Feuill. Col., 2: 74 t. 37. 1869. Type: Illustration cited above (lectotype: illustration, designated here).
- Coleus reveesii* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus ruckeri* T.Moore, Gard. Chron. 1868: 376. 1868. Type: not seen.
- Coleus saundersii* T.Moore, Gard. Chron. 1868: 376. 1868. Type: not seen.
- Coleus scottii* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus wilsonii* T.Moore, Gard. Chron. 1868: 377. 1868. Type: not seen.
- Coleus telfordii* McPhail ex H.Laurentius, Nursery Cat. (H.Laurentius) 40: 3. 1868.
- Coleus blumei* var. *telfordii* (McPhail ex H.Laurentius) Rothsch., Pl. Feuill. Col., 2: 74 t. 37. 1869. Type: Illustration cited above (lectotype: illustration, designated here).
- Coleus scutellarioides* var. *angustifolia* Benth., Fl. Austral. 5: 80. 1870.
- Calchas scutellarioides* var. *angustifolia* (Benth.) P.V.Heath, Calyx 6: 51. 1999. Type: Australia, Table Hill, Victoria River & Macadam Range, 1855, F. Mueller s.n. (syntype: K); Port Essington, Armstrong 244 (syntype: K).
- Coleus scutellarioides* var. *laxa* Benth., Fl. Austral. 5: 80. 1870. Types: Australia, Roe River, York Sound, NW coast, A.Cunningham (syntype: K); Roebuck Bay NW coast, Martin s.n. (syntype: not seen); Arnheims land, Mackinley, R.Brown (syntype: MEL).
- Coleus scutellarioides* var. *limnophila* Benth., Fl. Austral. 5: 80. 1870.
- Calchas scutellarioides* var. *limnophila* (Benth.) P.V.Heath, Calyx 6: 51. 1999. Type: Australia, Nicholson & MacArthur Rivers, F. Mueller (syntypes: K).
- Coleus tryonii* auct., Fl. Mag. (London), n.s., 1: t. 34. 1872. Type: cultivated in UK, Leicester, garden of Captain Tryon (lectotype: illustration designated here).
- Coleus verschaffeltii* var. *splendens* auct., Garden (London 1871–1927) 5: 54. 1874. Type: not seen.
- Coleus multicolor* J.H.Veitch ex Kellock, Gard. Chron., n.s., 7: 571. 1877. Type: not seen.
- Coleus hendersonii* Regel, Gartenflora 28: 244. 1879. Type: not seen.
- Coleus* × *eureka* auct., Gard. Chron., ser. 3, 5: 808. 1889. nom. nud.
- Coleus gaudichaudii* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 237. 1898. Type: Philippines, fle de Luzon pres de Manille, Dec. 1836, Gaudichaud s.n. (holotype: G-DEL).



- Coleus igolotorum* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 236. 1898. Type: Philippines, fle de Luzon, dans le pays des Igolotes, Callery 48 (holotype: G-DEL; isotype: P).
- Coleus savannicola* K.Schum. in K.M.Schumann & C.A.G.Lauterbach, Fl. Schutzgeb. Südsee: 529. 1900. Type: not seen.
- Coleus formosanus* Hayata, J. Coll. Sci. Imp. Univ. Tokyo 22: 320. 1906. Type: Kotosho, 21 Nov. 1899, Miyake s.n. (holotype: TI).
- Coleus macranthus* var. *crispipilus* Merr., Philipp. J. Sci. 1(suppl.): 235. 1906.
- Coleus crispipilus* (Merr.) Merr., Philipp. J. Sci., C 5: 382. 1910.
- Calchas crispipilus* (Merr.) P.V.Heath, Calyx 5: 160. 1996.
- Coleus scutellarioides* var. *crispipilus* (Merr.) H.Keng, Gard. Bull. Singapore 24: 56. 1969.
- Calchas scutellarioides* var. *crispipilus* (Merr.) P.V.Heath, Calyx 6: 51. 1999. Type: Philippines, Suyoc to Panai, Province of Benguet, Luzon, 2200 m, Nov. 1905, Merrill 4780 (holotype: PNH; isotypes: BM, K, NY).
- Coleus pubescens* Merr., Philipp. J. Sci., C 3: 432. 1909. Type: Philippines, Babuyan Island, 17 June 1907, Eugenio Zenix, Bureau of Science 3892 (holotype: PNH; isotype: BM).
- Coleus zschokkei* Merr., Philipp. J. Sci., C 5: 382. 1910. Type: Philippines, Mt Pulog, Prov. of Bengnet, Luzon, May 1909, Merrill 6529 (holotype: PNH; isotypes: K, NY, P).
- Coleus integrifolius* Elmer, Leaf. Philipp. Bot. 7: 2696. 1915.
- Coleus scutellarioides* var. *integrifolius* (Elmer) Keng, Gard. Bull. Singapore 24: 58. 1969. Type: Philippines, Mindanao, Cabadbaran (Mt Urdaneta), Prov. of Agusan, Island of Mindanao, August 1912, Elmer 13627 (holotype: PNH; isotypes: A, BM, K, L, NY, P).
- Coleus gibbsiae* S.Moore in L.S.Gibbs, Fl. Arfak Mts.: 178. 1917.
- Coleus scutellarioides* var. *gibbsiae* (S.Moore) Keng, Gard. Bull. Singapore 24: 58. 1969. Type: Indonesia, New Guinea, Arfak Mts, 2100 m, Gibbs 5909 (holotype: BM; isotypes: K, L).
- Coleus rehnelianus* A.Berger, Bot. Jahrb. Syst. 54 (5, Beibl. 120): 197. 1917. Type: not seen.
- Coleus hybridus* Cobeau, Arch. Bot. (Forl.) 4: 35. 1928. Type: not seen.

**Distribution.** Trop. & Subtrop. Asia to N. Australia. Widely cultivated as an ornamental.

***Coleus seretii* De Wild., Bol. Soc. Ibér. Ci. Nat. 19: 122. 1920**

- Calchas seretii* (De Wild.) P.V.Heath, Calyx 6: 51. 1999.
- Plectranthus seretii* (De Wild.) Vollesen, Opera Bot. 59: 84. 1980. Type: DRC, Buta to Bima (Bali), Seret 68 (syntype: BR) & Suronga Forest, Seret 420 (wrongly cited as 120 in protologue) (syntype: BR; isosyntype: K).

**Distribution.** Ethiopia, DRC, Tanzania, NW. Madagascar.

***Coleus sessilifolius* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201190-1

*Plectranthus sessilifolius* A.J. Paton, Fl. Zambes. 8(8): 281. 2013. Type: Zimbabwe, Mutare Dist., Himalaya Mts, 5 Mar.1954, Wild 4505 (holotype: K; isotypes: LISC, MO, SRGH).

**Distribution.** Zimbabwe, Mozambique.

***Coleus shirensis* Gürke, Bot. Jahrb. Syst. 19: 216. 1894**

*Solenostemon shirensis* (Gürke) Codd, Bothalia 11: 440. 1975.

*Calchas shirensis* (Gürke) P.V.Heath, Calyx 6: 51. 1999.

*Plectranthus shirensis* (Gürke) A.J.Paton, SABONET Rep. Ser. 31: 189. 2005. Type: Malawi, 1891, Buchanan 376 (lectotype: K; isolectotype: E, designated by Mathew (1976)).

*Coleus punctatus* Baker, Bull. Misc. Inform. Kew 1895: 291. 1895. Type: Zambia, Mweru Plateau, W of Lake Tanganyika, 1894, Carson 25 (holotype: K).

*Solenostemon zambesiacus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 421. 1900. Types: Malawi, Blantyre, 1887, Last s.n. (syntype: K); ?Mozambique, “Zambesia”, between Shibisa and Tshinmuzo, Nov.1859, Kirk s.n. (syntype: K).

**Distribution.** SW. & S. Tanzania to S. Trop. Africa.

***Coleus shoalamudianus* (Sunil & Naveen Kum.) Smitha & A.J. Paton, comb. nov.**

urn:lsid:ipni.org:names:77201191-1

*Anisochilus shoalamudianus* Sunil & Naveen Kum. Webbia 70(2): 217. 2015. Type: India, Ernakulam District, Edamalayar Forest Range, Shoolamudi, Sunil & Naveen Kumar 6918 (holotype: MH; isotype CALI).

***Coleus sigmoideus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201192-1

*Plectranthus sigmoideus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 333. 2009. Type: Zambia, track opposite turning to Mbala (Abercorn) Club, Richards 4353 (holotype: K).

**Distribution.** SW. Tanzania to Zambia.

***Coleus socotranus* (A.R.Sm.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201193-1

*Plectranthus socotranus* A.R.Sm., Hooker's Icon. Pl. 37: t. 3692. 1971. Type: Socotra, Adhoh de Melhoh, Hagghiher Mts, 22 Apr. 1967, Smith & Lavranos 499 (holotype: K; isotype FI).

**Distribution.** Socotra.

***Coleus sparsiflorus* Elmer, Leaf. Philipp. Bot. 7: 2699 1915**

*Plectranthus sparsiflorus* (Elmer) H.Keng, Fl. Males. 8: 391. 1978. Type: Philippines, Mindanao, Mt. Apo, Sept. 1912, A.D.E.Elmer 11646 (isotypes: G, L).

**Distribution.** Philippines.

***Coleus magnificus* P.I.Forst. & A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201303-1

*Plectranthus spectabilis* S.T.Blake, Contr. Queensland Herb. 9: 50. 1971, non *Coleus spectabilis* Miq. Type: Australia, Queensland, Macalister Range near Hartley Creek C NW of Cairns (Cultivated at The Gap), Apr. 1959, S.T.Blake 20535 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus sphaerocephalus* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201194-1

*Pycnostachys sphaerocephala* Baker, Bull. Misc. Inform. Kew 1898: 162. 1898. Type: Malawi, Nyika Plateau, 1800–2100 m, Whyte 139 (holotype: K).

*Pycnostachys whytei* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 383. 1900. Type: Malawi, Chitipa (Fort Hill), Whyte s.n. (holotype: K).

*Pycnostachys perkinsii* E.A.Bruce, Bull. Misc. Inform. Kew 1939: 587. 1940.

*Pycnostachys kaessneri* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 73. 1921., nom. illeg. Type: DRC, Katanga, Muhila (Mugila) Mts, western slope, Kassner 2991a (holotype: B, destroyed; isotypes: BR, K).

**Distribution.** Tanzania to Zambia.



***Coleus splendens* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201302-1

*Plectranthus splendens* P.I.Forst., *Austrobaileya* 9(2): 211. 2014. Type: Australia, Queensland, Cook District, Hann Tableland National Park, 8 April 2013, P.I.Forster PIF39587 (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland.

***Coleus splendidus* A.Chev., J. Bot. (Morot) 22: 122. 1909**

*Coleus splendidus* A.Chev., J. Bot. (Morot) 22: 122. 1909. Type: Guinea, Timbo, 16 September 1907, A. Chevalier s.n. (holotype: P).

*Coleus djalonsensis* A.Chev., J. Bot. (Morot) 22: 123. 1909. Type: Guinea, between Kouria and Bouroukountou, 12 Sept. 1907, A. Chevalier s.n. (holotype: P).

*Coleus peulhorum* var. *violacea* A.Chev., J. Bot. (Morot) 22: 124. 1909. Type: Guinea: Fouta Djallon, entre Diaguissa et Boulwel, Chevalier 18606bis (holotype: P; isotype: P).

**Distribution.** Guinea.

***Coleus stachyoides* (Oliv.) E.A.Bruce, Bull. Misc. Inform. Kew 1934: 306. 1934**

*Plectranthus stachyoides* Oliv., Trans. Linn. Soc. London 29: 136. 1875. Type: Uganda, West Nile District: Madi, Grant 732 (holotype: K).

*Plectranthus cylindrostachys* Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 356. 1928. Type: Burundi, Irubura, Akanguru valley, Robyns 2403 (holotype: BR; isotype: K).

**Distribution.** Central African Rep. to E. Trop. Africa.

***Coleus steenisii* (H.Keng) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201304-1

*Plectranthus steenisii* H.Keng, Gard. Bull. Singapore 24: 145. 1969. Type: Java, res. Pasoeroean, G. Ardjoeno, rd bet. Sawahan Bakal and Sawahan Ardjoeno, 5 June 1935, van Steenis 7111 (holotype: L).

**Distribution.** E. Java.

***Coleus stenostachys* (Baker) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201305-1

*Pycnostachys stenostachys* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 380. 1900. Type: Uganda, Bunyoro District: sides of Nile, 1862, Grant in Speke & Grant s.n. (holotype: K).

*Pycnostachys coerulea* Hook., Exot. Fl. 3: t. 202. 1826, non *Coleus coeruleus* Gürke. Type: cultivated from seeds sent from Madagascar, collected by Bojer & Helsing (holotype: K; isotype: M).

*Pycnostachys micrantha* Gürke in H.G.A.Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895, non *Coleus micranthus* Maxim. Types: Tanzania, Bukoba District: Karagwe, Stuhlmann 1720 & Mpororo, Stuhlmann 2056 & Bukoba, Stuhlmann 3276, 3718 & 3953 (syntypes: B, destroyed).

*Pycnostachys brevipetiolata* De Wild., Pl. Bequaert. 4: 394. 1928. Type: DRC, Kivu, Rutshuru R., Kaisafu, Bequaert 5972 (holotype: BR).

**Distribution.** Ethiopia to South Africa, Madagascar.

***Coleus strictipes* (G.Taylor) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201306-1

*Plectranthus strictipes* (G.Taylor) A.J.Paton, Fl. Zambes. 8(8): 234. 2013.

*Holostylon strictipes* G.Taylor in J. Bot. 69, suppl.2: 161. 1931. Types: Angola, Cahain-galamush near Mulanje, 1903, Gossweiler 1038 (syntype: BM, K, P); Gola Luige, Malanje, Nov. 1922, Gossweiler 8848 (syntype: BM, K).

**Distribution.** Angola.

***Coleus strobilifer* (Roxb.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201307-1

Fig. 5E

*Plectranthus strobilifer* Roxb., Hort. Bengal.: 45. 1814. Type: Katu-Kurka, Illustration in Rheede, Hort. Malab. 10: 179., t.90. 1690, (lectotype: illustration, designated by Suddee and Paton 2009).

*Lavandula carnosus* L.f., suppl. Pl.: 273. 1782 non *Coleus carnosus* Hassk.

*Plectranthus carnosus* (L.f.) Sm. in A.Rees, Cycl. 27: n.° 7. 1814.

*Anisochilus carnosus* (L.f.) ex Benth., Edwards's Bot. Reg. 15: t. 1300. 1830. Type: India, Koenig s.n., Linnean Herbarium 727.7 (lectotype LINN).

*Plectranthus dubius* Spreng., Syst. Veg. 2: 691. 1825., nom. illeg.

- Anisochilus carnosus* var. *purpurascens* Benth. in N. Wallich, Pl. Asiat. Rar. 2: 18. 1830. Type: Burma, in monte Taong Dong Ava, 24 Nov. 1826, Wall. Cat. 2753A (lectotype: K (K000674685); isoelectotypes G-DC, K-W (K001117024); designated by Suddee & Paton (2009)).
- Anisochilus glaber* Schrad., Index Seminum (GOET) 1833: 1. 1833.
- Anisochilus carnosus* var. *glaber* (Schrad.) Benth., Labiat. Gen. Spec.: 711. 1835. Type: India, W Himalaya, to 2400 m, Edgworth 14 (neotype: K (K000674684), designated by Suddee et al. (2004)).
- Anisochilus carnosus* var. *villosior* Benth. in A.P. de Candolle, Prodr. 12: 81. 1848. Type: Deccan Peninsula. Herb. Wight 2516 (K (K000674688), lectotype designated Suddee and Paton 2009).
- Anisochilus carnosus* var. *viridis* Benth. in A.P. de Candolle, Prodr. 12: 81. 1848. Type: India, Deccan Peninsula, Herb. Wight 2521, (holotype: K (K000674686)).
- Anisochilus crassus* Benth. in A.P. de Candolle, Prodr. 12: 81. 1848. Type: Deccan Peninsula, Herb. Wight. 2517 (lectotype: K (K000674682); isoelectotype: E; designated Suddee and Paton 2009).
- Anisochilus eriocephalus* Benth. in A.P. de Candolle, Prodr. 12: 81. 1848.
- Anisochilus carnosus* var. *eriocephalus* (Benth.) T. Cooke, Fl. Bombay 2: 450. 1908. Type: Deccan Peninsula, Bellary, Herb. Wight 2518 (lectotype: K (K000674676); isoelectotypes: E, K (K000674678, K000674677), designated Suddee & Paton (2009)).
- Anisochilus decussatus* Dalzell & A. Gibson, Bombay Fl.: 206. 1861. Type: India, Concan, on the Highest Ghauts opposite Bombay, Dalzell s.n. (holotype: K).
- Anisochilus rupestris* Wight ex Hook.f., Fl. Brit. India 4: 627. 1885. Type: India Deccan Peninsula, Herb. Wight 2521, (holotype: K (K000674686)).

**Distribution.** Indian Subcontinent to Indo-China.

***Coleus stuhlmannii* (Gürke) A.J. Paton, comb. nov.**

urn:lsid:ipni.org:names:77201308-1

- Pycnostachys stuhlmannii* Gürke in H.G.A. Engler, Pflanzenw. Ost-Afrikas, C: 345. 1895. Type: Tanzania, Bukoba District: Karagwe, Ngaramo, Stuhlmann 1630 (holotype: B, destroyed; K, fragment).
- Pycnostachys remotifolia* Baker, Bull. Misc. Inform. Kew 1898: 161. 1898. Type: Malawi, Chitipa (Fort Hill), July 1896, Whyte s.n. (holotype: K).
- Pycnostachys bequaertii* De Wild., Contr. Fl. Katanga: 171. 1921. Type: DRC, Katanga, Shinsenda, Bequaert 425 (lectotype: BR; designated by Bramley in Paton et al. (2009)).
- Pycnostachys longifolia* De Wild., Contr. Fl. Katanga: 172. 1921. Type: DRC, Katanga, Welgelegen, Bequaert 562 (holotype: BR; isotype: K, fragment).

**Distribution.** Kenya to S. Trop. Africa.



***Coleus suaveolens* (S.T.Blake) P.I.Forst. & T.C.Wilson, comb. nov.**

urn:lsid:ipni.org:names:77201309-1

*Plectranthus suaveolens* S.T.Blake, Contr. Queensland Herb. 9: 30. 1971. Type: Australia, Queensland, Cultivated at The Gap, Brisbane. Grown from transplants collected at Queen Mary's Falls, by J.A. Gresty, Jan. 1959, S.T.Blake 20506 (holotype: BRI).

**Distribution.** E. Australia.

***Coleus subspicatus* (Hochst.) Walp., Repert. Bot. Syst. 6: 658. 1847**

*Plectranthus subspicatus* Hochst., Flora 28: 67. 1845. Type: South Africa, Cape, Uitenhage, Krauss 1112 (syntypes: TUB (TUB008736, TUB008735).

*Plectranthus spicatus* E.Mey., Comm. Pl. Afr. Austr.: 230. 1838.

*Burnatastrum spicatum* (E.Mey.) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 358. 1897, non *Coleus spicatus* Benth. Type: South Africa, Cape, Bathurst Division, Glenfilling, 1836, Drège 4731b (lectotype: K; isoelectotypes: MO, P, S; designated by Codd (1975)).

**Distribution.** S. Mozambique to South Africa.

***Coleus succulentus* Pax, Bot. Jahrb. Syst. 39: 646. 1907**

*Coleus succulentus* Pax, Bot. Jahrb. Syst. 39: 646. 1907. Types. Ethiopia, Shoa, Schankora, Rosen s.n. (holotype: WRS�, destroyed); neotype: Ethiopia, Zuquala Mt, Ryding & Puff 1657 (neotype: UPS; isoneotype: ETH ; designated by Ryding (2000)).

*Plectranthus pseudomarrubiioides* R.H.Willemse, Kew Bull. 40: 93. 1985. Type: Ethiopia, Debre Libanos, de Wilde 8656 (holotype: WAG).

**Distribution.** Ethiopia to N. Tanzania, Arabian Peninsula.

***Coleus suffruticosus* (Wight) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201310-1

*Anisochilus suffruticosus* Wight, Icon. Pl. Ind. Orient. 4 (1): t. 1437. 1849. Type: India, Deccan Peninsula, Western Ghats, Nilghiri Hills, western slopes at Sisparah, Ex Herb. Wight Propr, Wight 1437 (holotype: K).

**Distribution.** India.

***Coleus sylvestris* (Gürke) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201311-1

*Plectranthus sylvestris* Gürke, Bot. Jahrb. Syst. 19: 205. 1894. Type: Tanzania, Kilimanjaro, Rifinika Hill on Mawenzi, 14 Sept. 1893, Volkens 965 (holotype: B, destroyed; isotype: BM, G).

*Coleus ruwenzoriensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 427. 1900. Types: Uganda, Ruwenzori, Scott Elliot 7556 & 7798 (syntypes: BM).

*Plectranthus chiradzulensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 412. 1900. Types: Malawi, Mt Chiradzulu summit, Meller s.n. (syntype: K (K000430788)); Mt Mulanje, Whyte s.n. (syntype: K (K000430787)).

*Coleus ferrugineus* Robyns, Bull. Jard. Bot. État Bruxelles 17: 77. 1943.

*Plectranthus ferrugineus* (Robyns) Troupin & Ayob. in G.M.D.Troupin, Fl. Rwanda 3: 336. 1985., nom. inval. Type: DRC, Karisimbi, Lebrun 5005 (holotype: BR; isotype: K).

*Coleus subulatus* Robyns, Bull. Jard. Bot. État Bruxelles 17: 76. 1943. Type: DRC, Kivu, Tschamugussa, de Witte 1854 (holotype: BR).

*Plectranthus bosseri* Hedge, Fl. Madag. 175: 214. 1998. Type: Madagascar, Bosser 17953 (holotype: P).

**Distribution.** Trop. Africa, Madagascar.

***Coleus tenuicaulis* Hook.f., J. Proc. Linn. Soc., Bot. 7: 211. 1864**

Fig. 5E

*Majana tenuicaulis* (Hook.f.) Kuntze, Revis. Gen. Pl. 2: 524. 1891.

*Plectranthus tenuicaulis* (Hook.f.) J.K.Morton, J. Linn. Soc., Bot. 58: 268. 1962. Type: Cameroon, Mt Cameroon, Dec.1862, Mann 1939 (holotype: K).

*Coleus membranaceus* Briq., Bot. Jahrb. Syst. 19: 182. 1894. Type: Angola, Cissacala (Sacalla?) in Cuango (Quango) region, Jan.1881, Mechow 554 (isotype: W).

*Coleus montanus* Gürke, Bot. Jahrb. Syst. 19: 218. 1894., nom. illeg., non *Coleus montanus* Hochst. ex Ces.

*Plectranthus herbaceus* Briq., Bot. Jahrb. Syst. 19: 179. 1894.

*Germanea herbacea* (Briq.) Hiern, Cat. Afr. Pl. 1: 861. 1900.

*Coleus herbaceus* (Briq.) G.Taylor, J. Bot. 69 (suppl. 2): 158. 1931. Type: Angola, Huíla, Lopolo, Mar. 1879, Welwitsch 5506 (syntypes: BM, G, K).

*Plectranthus minimus* Gürke, Bot. Jahrb. Syst. 19: 205. 1894. Type: Cameroon, Buea, Preuss 1019 (holotype: B, destroyed).

*Coleus cunenensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 443. 1900. Type: Angola, near Rio Cunene, Sept. 1883, Johnston s.n. (holotype: K).

*Germanea andongensis* Hiern, Cat. Afr. Pl. 1: 862. 1900.

*Plectranthus andongensis* (Hiern) K.Schum., Just's Bot. Jahresber. 28(1): 486. 1902.

*Coleus andongensis* (Hiern) G.Taylor, J. Bot. 69 (suppl. 2): 158. 1931. Type: Angola, Pungo Andongo, 1856–57, Welwitsch 5543 (holotype: LISU, isotype: BM).

*Germanea concinna* Hiern, Cat. Afr. Pl. 1: 861. 1900.

*Plectranthus concinnus* (Hiern) K.Schum., Just's Bot. Jahresber. 28(1): 486. 1902. Type: Angola, Pungo Andongo, Mata de Pungo, Apr. 1857, Welwitsch 5533 (holotype: LISU; isotype: K).

*Germanea concinna* var. *albiflora* Hiern, Cat. Afr. Pl. 1: 862. 1900. Type: Angola, Pungo Andongo, between Luxilo and Cazela, May 1857, Welwitsch 5586 (holotype: LISU; isotypes: BM, G).

*Germanea concinna* var. *caerulea* Hiern, Cat. Afr. Pl. 1: 862. 1900. Type: Angola, Pungo Andongo, Nov. 1856, Welwitsch 5521 (holotype: LISU; isotype: BM).

*Coleus peulhorum* A.Chev., J. Bot. (Morot) 22: 123. 1909.

*Plectranthus peulhorum* (A.Chev.) J.K.Morton, J. Linn. Soc., Bot. 58: 268. 1962. Type: Guinea, Fouta Djallon, 13 Sept. 1907, Chevalier s.n. (holotype: P).

*Coleus drymophilus* G.Taylor, J. Bot. 69 (Suppl. 2): 160. 1931. Type: Angola, Cassuango, Cuiriri, n.d., Gossweiler 4056 (holotype: BM; isotype: K).

**Distribution.** W. Trop. Africa to Cameroon, SW. Tanzania to S. Trop. Africa.

***Coleus tetradenifolius* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201312-1

*Plectranthus tetradenifolius* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 304. 2009. Type: Uganda, Karamoja District: Mt Moroto, Tweedie 2665 (holotype: K).

**Distribution.** Cameroon, S. Sudan to E. Trop. Africa.

***Coleus tetragonus* (Gürke) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929**

*Plectranthus tetragonus* Gürke, Bot. Jahrb. Syst. 19: 209. 1894.

*Englerastrum tetragonum* (Gürke) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 73. 1924. Type: Tanzania, Lushoto District: Usambara Mts, Mashewa (Mascheua), Holst 3573 (holotype: B, destroyed; isotype: K, W, Z).

*Plectranthus melanocarpus* Gürke, Bot. Jahrb. Syst. 19: 210. 1894.

*Englerastrum melanocarpum* (Gürke) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 71. 1924.

*Coleus melanocarpus* (Gürke) Robyns & Lebrun, Ann. Soc. Sci. Bruxelles, Sér. B 49: 106. 1929. Type: Tanzania, Masai steppe, Fischer 511 (holotype: B, destroyed; isotype: K, fragment).



*Plectranthus biflorus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 402. 1900.  
*Englerastrum biflorum* (Baker) T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 9: 73.  
 1924. Type: Malawi, between Khondowe and Karonga, Whyte s.n. (holotype: K).  
*Plectranthus dekindtianus* De Wild., Ann. Mus. Congo Belge, Bot., sér. 4, 2: 135. 1913.  
 Type: DRC, Bugege, Hock s.n. (holotype: BR).

**Distribution.** Kenya to South Africa.

***Coleus thalassoscopicus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201313-1

*Plectranthus thalassoscopicus* P.I.Forst., Austrobaileya 4: 653. 1997. Type: Australia, Queensland, Cook District, North Bell Peak, Malbon Thompson Range, 12 Nov. 1995, P.I. Forster PIF18048, R.L. Jago & R. Jensen (holotype: BRI; isotypes: CNS, K, MEL).

**Distribution.** Australia: Queensland (Cook).

***Coleus thyrsoideus* Baker, Bot. Mag. 125: t. 7672 1899**

*Plectranthus thyrsoideus* (Baker) B.Mathew, Kew Bull. 31: 174. 1976. Type: Plant cultivated at Kew 3 Jan.1899; seed from herbarium specimen from N of Lake Malawi collected by Whyte (holotype: K).

**Distribution.** S. Trop. Africa.

***Coleus togoensis* (Perkins) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201314-1

*Pycnostachys togoensis* Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 69. 1921. Type: Benin (Togo), between Kete and the Volta, Jan. 1895, Baumann 404 (B, holotype, destroyed; K, fragment).

*Pycnostachys schweinfurthii* Briq., Bot. Jahrb. Syst. 19: 191. 1894, non *Coleus schweinfurthii* Vatke. Type: Sudan, Equatoria, Dokuto (Dukuttu), Schweinfurth 2770 (holotype: B, destroyed; isotype: K).

**Distribution.** W. Trop. Africa to Tanzania.

***Coleus tomentifolius* (Suddee) Suddee, comb. nov.**

urn:lsid:ipni.org:names:77201315-1

*Plectranthus tomentifolius* Suddee, Kew Bull. 59: 393. 2004. Type: Thailand, Takua Thung, Nov. 1896, Curtis s.n. (holotype: SING).

**Distribution.** Peninsula Thailand.

***Coleus torrenticola* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201316-1

*Plectranthus torrenticola* P.I.Forst., Austrobaileya 3: 729. 1992. Type: Australia, Moreton District, Pooles Dam, Cooloolabin, State Forest Drive, 20 Feb. 1991, P.I. Forster PIF7797 & P.R. Sharpe (holotype: BRI; isotypes: CANB, K, MEL, NSW).

**Distribution.** Australia: Queensland.

***Coleus triangularis* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201317-1

*Plectranthus triangularis* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 313. 2009. Type: Kenya, Taita District: Ngangao Forest, Luke et al. 5497 (holotype: K; isotype: EA).

**Distribution.** SE. Kenya to E. Tanzania.

***Coleus trullatus* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201318-1

*Plectranthus trullatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 315. 2009. Type: Tanzania, Iringa District: Udzungwa Mts, Sanje path above loggers' camp, Bridson 641 (holotype: K).

**Distribution.** Tanzania.

***Coleus umbrosus* Vatke, Linnaea 43: 91. 1881**

*Pycnostachys umbrosa* (Vatke) Perkins, Notizbl. Bot. Gart. Berlin-Dahlem 8: 77. 1921. Type: Kenya, Teita District: Ndara, Hildebrandt 2424 (holotype: B, destroyed).

*Coleus tricholobus* Gürke, Abh. Königl. Akad. Wiss. Berlin 1894: 62. 1894. Type: Tanzania, Lushoto District: W Usambara Mts, Mlalo, Holst 455 (holotype: B, destroyed; K, fragment).

**Distribution.** Kenya to N. Tanzania.

***Coleus unguentarius* (Codd) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201319-1

*Plectranthus unguentarius* Codd, Bothalia 11: 387. 1975. Type: Namibia, Kaokoveld, 17 km S. of Kaoko Otavi on road to Sesfontein, 21 April 1957, De Winter & Leistner 5595 (holotype: PRE).

**Distribution.** Namibia.

***Coleus urticifolius* Benth. in A.P.de Candolle, Prodr. 12: 78. 1848**

*Plectranthus urticifolius* (Benth.) Hook.f., Fl. Brit. India 4: 622. 1885., nom. illeg.  
*Plectranthus beddomei* Raizada, Indian Forester 84: 503. 1958. Type: India, Courtallum, R.Wight 622 (holotype: K (K000820175); isotype: K(K000820174)).

**Distribution.** S. India.

***Coleus velutinus* (Trimen) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201320-1

*Anisochilus velutinus* Trimen, Handb. Fl. Ceylon 3: 377. 1895. Type: Sri Lanka, Gunner's Quoin, in the Batticaloa Distr, CP 3573 (holotype: PDA; isotypes: BM, K).  
*Anisochilus suffruticosus sensu* Thwaites, Enum. Pl. Zeyl.: 238. 1860., non *Anisochilus suffruticosus* Wight; non *Coleus suffrutescens* (Wight) A.J.Paton.

**Distribution.** Sri Lanka.

***Coleus venter* (van Jaarsv. & L.Hankey) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201321-1

*Plectranthus venter* van Jaarsv. & L.Hankey, Aloe 34: 40. 1997. Type: South Africa, Northern Prov., Tzaneen, Geeneinde, Schoonoord, Sekekuneland, Venter 13626 (holotype: PRE).



**Distribution.** S. Zimbabwe to Limpopo (Leolo Mts.).

***Coleus ventosus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201322-1

*Plectranthus ventosus* P.I.Forst., *Austrobaileya* 9: 435. 2015. Type: Australia, Queensland, Cook District; ex situ cultivation from Melville Peak, Cape Melville National Park, 10 April 2015, H.B.Hines & C.J.Hoskin CM4 (holotype: BRI).

**Distribution.** Australia: Queensland.

***Coleus venustus* (P.I.Forst.) P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201323-1

*Plectranthus venustus* P.I.Forst., *Austrobaileya* 8: 401. 2011. Type: Queensland, Cook District, Kennedy Hill Gorge, 21 June 1989, P.I.Forster PIF5388 & M.C.Tucker (holotype: BRI; isotypes: CNS, MEL).

**Distribution.** Australia: Queensland.

***Coleus verticillatus* (Baker) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201324-1

*Pycnostachys verticillata* Baker, Bull. Misc. Inform. Kew 1895: 71. 1895. Type: Zambia, Northern Province, Fwambo, Carson 38 (holotype: K).

**Distribution.** W. Tanzania to Zambia.

***Coleus vettiveroides* K.C.Jacob, J. Bombay Nat. Hist. Soc. 42: 320. 1941**

*Plectranthus vettiveroides* (K.C.Jacob) N.P.Singh & B.D.Sharma, J. Bombay Nat. Hist. Soc. 79: 712. 1982. publ. 1983. Type: India, Coimbatore, Madras Herbarium No. 85676. (holotype: MH).

*Coleus osmirrhizon* Elliot, Fl. Andhrica: 105. 1859. nom. inval.

**Distribution.** S. India.

***Coleus veyretiae* (Guillaumet & A.Cornet) A.J.Paton & Phillipson, comb. nov.**

urn:lsid:ipni.org:names:77201325-1

*Solenostemon veyretiae* Guillaumet & A.Cornet, *Adansonia*, n.s., 15: 526. 1976.*Plectranthus veyretiae* (Guillaumet & A.Cornet) Hedge, *Fl. Madag.* 175: 226. 1998.

Type: Madagascar, Mahajanga, Sofia, Veyret 1154 (holotype: P; isotypes: K, TAN).

**Distribution.** Madagascar.***Coleus villosus* (Forssk.) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201326-1

*Ocimum villosum* Forssk., *Fl. Aegypt.-Arab.*: cxv, 369. 1775.*Ocimum*  $\beta$  *zatarhendi* Forssk. *Fl. Aegypt.-Arab.*: 110. 1775.*Plectranthus villosus* (Forssk.) C, *Chr.*, *Dansk Bot. Arkiv.* 4, 21. 1922, nom. illeg., non *P. villosus* Sieber ex Benth.*Plectranthus arabicus* E.A.Bruce, *Bull. Misc. Inform. Kew* 1935: 324. 1935., non *Coleus arabicus* Benth. Type: Yemen, between Dorebat and Taaes (Taiz), Forsskal (holotype C, destroyed). Neotype: Saudi Arabia, Wolledje, Gebel Melhan Schweinfurth 690 (neotype: K; isoneotype: BM, P; designated by Wood (1983)).**Distribution.** SW. Arabian Peninsula.***Coleus wallamanensis* (T.C.Wilson & P.I.Forst.) T.C.Wilson & P.I.Forst., comb. nov.**

urn:lsid:ipni.org:names:77201328-1

*Plectranthus wallamanensis* T.C.Wilson & P.I.Forst. *Australian Systematic Botany*, 31: 443. 2018. Type: Australia, Queensland:, North Kennedy District, Girringun National Park, rock fall at the base of Wallaman Falls, 9 May 2014, T.C.Wilson 521 & M.A.M.Renner (holotype: NSW 852570; isotypes: BRI, CANB).**Distribution.** Australia: Queensland.***Coleus welwitschii* Briq., *Bot. Jahrb. Syst.* 19: 185. 1895***Coleus welwitschii* Briq., *Bot. Jahrb. Syst.* 19: 185. 1895. Type. Angola, Welwitsch 5589 (isosyntypes: BM, K) & Angola, Pungo Andongo, Mechow 75 (not seen).*Coleus marquesii* Briq., *Annuaire Conserv. Jard. Bot. Genève* 2: 239. 1898. Type: Angola, Cuango and Cuillo, Marques 191 (holotype: G).*Coleus dupuisii* Briq., *Bull. Soc. Roy. Bot. Belgique* 37: 70. 1899.

- Plectranthus dupuisii* (Briq.) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 329. 2009. Type: DRC, Kasai, Mayumbe, Dupuis s.n. (holotype: BR).
- Coleus eetveldeanus* Briq., Bull. Soc. Roy. Bot. Belgique 37: 73. 1899. Type: Congo, Lake Tanganyika, Mtowa, Deschamps s.n. (holotype: BR).
- Coleus betonicoides* Baker ex Hiern, Cat. Afr. Pl. 1: 866. 1900.
- Calchas betonicoides* (Baker ex Hiern) P.V.Heath, Calyx 5: 160. 1997. Type: Angola, Huila, Lopollo, Ferrão da Sola, Welwitsch 5612 (holotype: LISU; isotypes: BM, G, K).
- Plectranthus microphyllus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 410. 1900., nom. illeg.
- Plectranthus porpeodon* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 525. 1900.
- Solenostemon porpeodon* (Baker) J.K.Morton, Novon 8: 266. 1998. Type: Tanzania, Tanga District: Magila, Kirk s.n. (holotype: K).
- Coleus newtonii* Briq., Bull. Herb. Boissier, sér. 2, 6: 826. 1906. Type: Angola, Mosamedes, Huila, Newton 105 (holotype: Z).
- Coleus delpierrei* De Wild., Bol. Soc. Ibér. Ci. Nat. 19: 119. 1920. Types: DRC, Vankerkhovenille, Delpierre s.n. (syntype: BR) & Niangara, Delpierre s.n. (syntype: BR).
- Coleus laurentii* De Wild., Bol. Soc. Ibér. Ci. Nat. 19: 121. 1920. Type: DRC, Gombe, E. & M. Laurent s.n. (holotype: BR).
- Coleus thyrsoiflorus* Lebrun & L.Touss. in J.-P.A.Lebrun, Expl. Parc Nat. Kagera 1: 120. 1948.
- Solenostemon thyrsoiflorus* (Lebrun & L.Touss.) Vollesen, Opera Bot. 59: 85. 1980. Type: DRC, Kagera, Nyakayaga, Lebrun 9447 (holotype: BR; isotype: K).

**Distribution.** Ethiopia to S. Trop. Africa.

***Coleus xanthanthus* C.Y.Wu & Y.C.Huang, Acta Phytotax. Sin. 10: 241. 1965**

- Coleus xanthanthus* C.Y.Wu & Y.C.Huang, Acta Phytotax. Sin. 10: 241. 1965. Type: China, Yunnan, Mon-lun, 15 Sept. 1959, S.K.Pei (holotype: HK).

**Distribution.** China: Yunnan.

***Coleus xerophilus* (Codd) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201329-1

- Plectranthus xerophilus* Codd, Bothalia 11: 282. 1974. Type: South Africa, Transvaal, Lydenburg, district, near Marone, Codd & Dyer 7729 (holotype: PRE).

**Distribution.** South Africa: Northern Prov.



***Coleus xylopodus* (Lukhoba & A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201330-1

*Plectranthus xylopodus* Lukhoba & A.J.Paton, Kew Bull. 55: 960. 2000. Type: Kenya, Trans-Nzoia District: S Cherangani, Symes 293 (holotype: EA; isotype: K).

*Ocimum cinereum* R.Br. in H.Salt, Voy. Abyss.: 64. 1814., nom. nud.

**Distribution.** S. Ethiopia to Uganda.

***Coleus yemenensis* A.J.Paton, nom. nov.**

urn:lsid:ipni.org:names:77201331-1

*Plectranthus ovatus* Benth., Labiat. Gen. Spec.: 709 1835., non *Coleus ovatus* Benth.

*Ocimum gratissimum* Forssk., Fl. Aegypt.-Arab.: 110. 1775., nom. illeg. Type: Yemen, July 1763, Forsskal 350 (holotype: C).

**Distribution.** Arabian Peninsula.

***Coleus zombensis* (Baker) Mwany., comb. nov.**

urn:lsid:ipni.org:names:77201332-1

*Plectranthus zombensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 402. 1900. Type: Malawi, summit of Mt Zomba, 1881, Buchanan 395 (holotype: K).

*Plectranthus lastii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 403. 1900. Type: Malawi, near Blantyre, Jan. 1887, Last s.n. (holotype: K).

**Distribution.** S. Malawi.

**Genus *Equilabium***

***Equilabium* Mwany., A.J. Paton & Culham, Bot. J. Linn. Soc. 188(4): 367. 2018**

Figs 6, 7

**Type species.** *Equilabium laxiflorum* (Benth.) Mwany., A.J.Paton & Culham.

**Description.** Annual or perennial herbs or soft wooded shrubs, rarely woody shrubs, sometimes with a persistent woody or fleshy rootstock. Leaves opposite. Inflorescence thyrsoïd, usually lax; cymes sessile or pedunculate, 1–3(–5, very rarely –7); bracts subtending cymes persistent. Flowers pedicelate. Calyx funnel-shaped, straight with pedicel attaching symmetrically at the calyx base, not opposite posterior lip, two-lipped; throat glabrous within, open; posterior lip 1-lobed, usually broader than an-

terior lobes, shortly decurrent on tube or not; anterior lip 4-lobed; lobes triangular or lanceolate; lateral lobes broader or equal to median lobes and held midway between the posterior lobe and the median lobes of the anterior lip; median lobes triangular to lanceolate. Corolla two-lipped with lips equal in length; tube sigmoid, sometimes strongly so, narrow and parallel-sided at base and expanding towards throat; posterior lip 4-lobed erect or ascending; anterior lobe horizontal, cucullate, sometimes frilled at apex. Stamens 4; filaments not fused together, held within the anterior lip. Style bifid with lobes subulate. Nutlets ovoid.

42 species mainly in Tropical Africa but including two in India.

***Equilabium acaule* (Brummitt & Seyani) Mwany., Culham & A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201333-1

*Plectranthus acaulis* Brummitt & Seyani, Kew Bull. 42: 695. 1987. Type: Malawi, Nyika Plateau, 8. Dec. 1965, Banda 760 (holotype: K; isotype: MAL).

**Distribution.** Malawi to Zambia (Nyika Plateau).

***Equilabium agnewii* (Lukhoba & A.J.Paton) Mwany. & A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201334-1

*Plectranthus agnewii* Lukhoba & A.J.Paton, Kew Bull. 55: 957. 2000. Type: Kenya, Nakuru National Park, W of Lake, Gillett 20847 (holotype: EA; isotype: K).

**Distribution.** E. Tropical Africa.

***Equilabium annuum* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201335-1

*Plectranthus annuus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 270. 2009. Type: Tanzania, Masasi District: Ndanda Mission, Bidgood, Abdallah & Vollesen 2077 (holotype: K (sheet 2); isotypes: BR, C, DSM, EA, K (sheet 1), NHT).

**Distribution.** S. Tanzania to Mozambique.

***Equilabium caespitosum* (Lukhoba & A.J.Paton) Mwany. & A.J.Paton, comb. nov.**  
 urn:lsid:ipni.org:names:77201336-1

*Plectranthus caespitosus* Lukhoba & A.J.Paton, Kew Bull. 58: 910. 2003, publ. 2004. Type: Kenya, E Mt Elgon, Irwin 286 (holotype: EA; isotype: K).

**Distribution.** Kenya to N. Tanzania.

***Equilabium candelabrifforme* (Launert) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201337-1

*Plectranthus candelabriformis* Launert, Mitt. Bot. Staatssamml. München 7: 300. 1968.

Type: Namibia, 16 km E of Runtu, 7 Mar. 1958, Merxmüller & Giess 1912 (holotype: M).

**Distribution.** Tanzania to N. Namibia.

***Equilabium cinereum* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201338-1

*Plectranthus cinereus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 247. 2009. Type: Tanzania, Mbulu District: Lake Manyara National Park, Ndala R., Greenway & Kanuri 11151 (holotype: K; isotype: EA).

**Distribution.** Kenya to Tanzania.

***Equilabium dissectum* (Brenan) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201339-1

*Plectranthus dissectus* Brenan, Mem. New York Bot. Gard. 9: 42. 1954. Type: Malawi, Zomba Plateau, 31 May 1946, Brass 16124 (holotype: K; isotypes: MO, PRE).

**Distribution.** S. Malawi.

***Equilabium dissectum* var. *dissectum***

Fig. 6B

*Plectranthus dissectus* Brenan var. *dissectus* A.J.Paton, Fl. Zambes. 8(8): 224. 2013.

***Equilabium dissectum* var. *chambense* (A.J.Paton) Mwany. & A.J. Paton, comb. nov.**

urn:lsid:ipni.org:names:77201340-1

*Plectranthus dissectus* Brenan var. *chambensis* A.J.Paton, Fl. Zambes. 8(8): 224. 2013.

Type: Malawi, Mulanje, Chambe basin, 4 May 1989, Goyder, Pope & Radcliffe-Smith 3205 (holotype: K).



**Distribution.** S. Malawi.

***Equilabium dolomiticum* (Codd) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201341-1

Fig. 6A

*Plectranthus dolomiticus* Codd, Bothalia 15: 142. 1984. Type: South Africa, Transvaal, Farm Ostend, 7 km NW of Penge Mine, 10 Dec. 1982, Van Jaarsveld 7052 (holotype, PRE).

**Distribution.** Zimbabwe to Limpopo.

***Equilabium equisetiforme* (E.A.Bruce) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201342-1

*Coleus equisetiformis* E.A. Bruce in Bull. Misc. Inform., Kew 1935: 285. 1935.

*Plectranthus equisetiformis* (E.A. Bruce) Launert in Mitt. Bot. Staatssamml. München 7: 299. 1968. Type: Tanzania, Mpwapwa, Kiboriani Mts, 19 Apr. 1932, Burt 3892 (holotype: K).

**Distribution.** Tanzania to N. Zambia.

***Equilabium flaccidum* (Vatke) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201343-1

*Coleus flaccidus* Vatke in Linnaea 43: 9. 1881.

*Plectranthus flaccidus* (Vatke) Gürke, Bot. Jahrb. Syst. 19: 206. 1894. Type: Tanzania, Bagamoyo District: Ruvu [Kingani] R., Hildebrandt 1264 (holotype: B, destroyed; isotype: K).

*Plectranthus fragilis* Baker in Fl. Trop. Afr. 5: 407. 1900. Type: Zanzibar, Kirk s.n. (holotype: K).

**Distribution.** S. Somalia to Mozambique, Comoros.

***Equilabium glandulosum* (Hook. f.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201344-1

*Plectranthus glandulosus* Hook.f., J. Proc. Linn. Soc., Bot. 6: 17. 1862. Type: Bioko [Fernando Po], Clarence Peak, Mann 318 (holotype: K).



**Figure 6.** Species of *Equilabium* 1. **A** *Equilabium dolomiticum* (Photo: Neil Crouch) **B** *E. dissectum* var. *dissectum* (Photo: Montfort Mwanyambo) **C** *E. gracilum* (Photo: Bart Wursten) **D** *E. laxiflorum* (Photo: Bart Wursten).



*Plectranthus hylophilus* Gürke, Bot. Jahrb. Syst. 19: 283. 1894. Type: Cameroon, Mann's Spring, Preuss 815 (holotype B, destroyed; isotype: K).

*Plectranthus laxiflorus* var. *genuinus* Briq., Bot. Jahrb. Syst. 19: 180. 1894., nom. inval.

*Germanea laxiflora* var. *genuina* (Briq.) Hiern, Cat. Afr. Pl. 1: 861. 1900., nom. inval.

Based on: Angola, Pungo Andongo, Welwitsch 5545 (BM, COI, K, PRE).

*Plectranthus phryxotrichus* Briq., Bull. Soc. Roy. Bot. Belgique 37: 66. 1899. Type: Congo-Kinshasa, Dewèvre 862 a (holotype: BR).

*Plectranthus urticoides* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 412. 1900. Type: Angola, Pungo Andongo, Welwitsch 5545 (holotype: LISU; isotype: K).

*Plectranthus almamii* A.Chev., J. Bot. (Morot) 22: 120. 1909. Type: Guinea, Conakry, Diagussa, around Diagussa and Dalaba, Oct. 1907, A.Chevalier 18609 (holotype: P; isotype: P).

**Distribution.** Widespread in Trop. Africa.

***Equilabium goetzei* (Gürke) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201345-1

*Plectranthus goetzei* Gürke, Bot. Jahrb. Syst. 28: 469. 1900. Type: Tanzania, Iringa Dist., Rungemba, Mar. 1899, Goetze 724 (holotype: B, destroyed; isotype: BM).

*Plectranthus salubenii* Brummitt & Seyani, Kew Bull. 42: 690. 1987. Type: Malawi, Katumbi Escarpment, 41.5 km N of Rumphi, 26 Dec. 1970, Pawek 4155 (holotype: K).

**Distribution.** SW. Tanzania to Zambia.

***Equilabium gracile* (Suess.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201346-1

Fig. 6E

*Plectranthus gracilis* Suess., Trans. Rhodesia Sci. Assoc. 43: 52. 1951. Type: Zimbabwe, Marondera (Marandellas), 26 Feb. 1943, Dehn 748 (holotype: M).

*Plectranthus zernyi* Gilli, Ann. Naturhist. Mus. Wien 77: 39. 1973. Type: Tanzania, Matengo Highlands, WSW from Songea, Ugano, 2 Mar. 1936, Zerny 483 (holotype: W; isotype: K).

*Plectranthus seyani* A.J.Paton & Brummitt, Kew Bull. 46: 523. 1991. Type: Malawi, Shire Valley, 16 km W of Zomba, 12 Mar. 1977, Brummitt & Patel 14821 (holotype: K; isotypes: MAL, SRGH, WAG).

**Distribution.** S. Tanzania to S. Trop. Africa.



***Equilabium intrusum* (Briq.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201347-1

*Plectranthus intrusus* Briq., Bull. Herb. Boissier, sér. 2, 1: 834. 1901. Type: DRC, N'Dembo, ann. 1898, J.Gillet s.n. (holotype: BR).

**Distribution.** DRC.

***Equilabium janthinothryx* (Lebrun & L. Touss) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201348-1

*Plectranthus janthinothryx* Lebrun & L.Touss., Bull. Jard. Bot. État Bruxelles 17: 69. 1943. Type: DRC, Rwindi, Lebrun 7930 (holotype: BR, isotype: K).

**Distribution.** DRC and Uganda.

***Equilabium jebel-marrae* (Wickens & B.Mathew) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201349-1

*Plectranthus jebel-marrae* Wickens & B.Mathew, Kew Bull. 25: 255. 1971. Type: Sudan, Darfur Province: Kulme, Sept. 1921. Lynes 589 (holotype: BM).

**Distribution.** Sudan.

***Equilabium kamerunense* (Gürke) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201350-1

*Plectranthus kamerunensis* Gürke, Bot. Jahrb. Syst. 19: 202. 1894. Type: Cameroon, West Buea, Preuss 1039 (holotype: B, destroyed).

*Plectranthus mannii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 408. 1900. Type: Cameroon, Mt Cameroon, Mann 1947 (holotype: K).

*Plectranthus keniensis* S.Moore, J. Bot. 1901: 264. 1901. Type: Kenya, Mt Kenya, Mackinder s.n. (holotype: BM).

*Plectranthus sangerawensis* Gürke, Bot. Jahrb. Syst. 36: 134. 1905. Types: Tanzania, E Usambara Mts, Sangerawe, Mongu, Engler 872 & Amani, Warnecke in Herb. Amani 481 (syntypes: B, destroyed).

*Plectranthus aberdaricus* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 27. 1930. Type: Kenya, Aberdares, R.E. & T.C.E. Fries 2784 (isotype: BM).

*Plectranthus sangerawensis* var. *glabrior* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 25. 1930. Types: Kenya, W Mt Kenya, R.E. & T.C.E. Fries 514, 518, 843 & Aberdares, R.E. & T.C.E. Fries 2443a (syntypes: UPS; isosyntype of 518: K).

*Plectranthus vicinus* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 27. 1930. Type: Kenya, Meru, R.E. & T.C.E. Fries 1580 (isotypes: K, MO).

**Distribution.** Nigeria to Cameroon, E. Trop. Africa.

***Equilabium laxiflorum* (Benth.) Mwany. & A.J.Paton, Bot. J. Linn. Soc. 188(4): 367. 2018**

Figs 6D, 7A

*Plectranthus laxiflorus* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 228. 1838.

*Germanea laxiflora* (Benth.) Hiern, Cat. Afr. Pl. 1: 861. 1900.

*Coleus laxiflorus* (Benth.) Roberty, Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 16: 331. 1954. Type: South Africa, KwaZulu-Natal, between Umzimkulu and Umkomaas Rivers, Drège 3586 (lectotype: K; designated by Codd (1975)).

*Plectranthus albus* Gürke, Bot. Jahrb. Syst. 19: 202. 1894. Type: Tanzania, Moshi District: Marangu, Volkens 744 (holotype: B, destroyed, isotype: BM).

*Plectranthus violaceus* Gürke, Bot. Jahrb. Syst. 19: 201. 1894. Type: Tanzania, Lushoto District: Usambara Mts, near Lutindi, Holst 3317 (holotype: B, destroyed; isotypes: K, W).

*Plectranthus johnstonii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 411. 1900. Type: Tanzania, Kilimanjaro, H.H. Johnston 69 (holotype: K).

*Plectranthus kondowensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 417. 1900. Type: Malawi, between Khondowe and Karonga, 1896, Whyte s.n. (holotype: K).

*Plectranthus triflorus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 417. 1900. Type: Tanzania, Kilimanjaro, Thomson s.n. (holotype: K).

*Plectranthus neumannii* Gürke, Bot. Jahrb. Syst. 36: 131. 1905. Types: Ethiopia, Gofa, Neumann 168 & 179 (syntype: B, destroyed); neotype: Ethiopia, Gamo Gofa, Busa Forest, near Gidole. Ryding et al. 1630 (neotype: UPS; isoneotype: ETH designated by Ryding (2000)).

*Plectranthus lilacinus* Gürke, Bot. Jahrb. Syst. 41: 315. 1908. Types: Tanzania, Kilimanjaro, Engler 1797 (syntype: B, destroyed) & Moshi, Uhlig 137 (isosyntype: EA).

*Coleus keniensis* Standl., Smithsonian Misc. Collect. 68(5): 14. 1917. Type: Kenya, W of Mt Kenya, Mearns 1334 (holotype: US; isotype: BM).

*Plectranthus fraternus* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 26. 1930. Type: Kenya W Mt Kenya, between Cole's Mill and Forest Station, R.E. & T.C.E. Fries 911 (lectotype UPS; isoelectotype K, MO; designated by Paton et al. (2009)).

**Distribution.** Ethiopia to South Africa.

***Equilabium longipes* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201351-1

*Plectranthus longipes* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 406. 1900.

Type: Eritrea, Ghinda, Schweinfurth 178 (holotype: K, isotype: G).

*Plectranthus amaniensis* Gürke, Bot. Jahrb. Syst. 36: 134. 1905. Types: Tanzania, Lushoto District: E Usambara Mts, between Amani & Kwambugo, Engler 783 & same vicinity, Warnecke in Herb. Amani 413a (syntypes: B, destroyed).*Plectranthus ellenbeckii* Gürke, Bot. Jahrb. Syst. 36: 132. 1905. Types: Ethiopia, Gallaaland, Belana, Ellenbeck 334 (holotype: B, destroyed); neotype: Ethiopia, Harerge Region, Awalla Valley, Jansen 1952 (neotype: WAG, designated by Ryding (2000)).*Plectranthus panganensis* Gürke, Bot. Jahrb. Syst. 41: 314. 1908. Type: Kenya, Kwale District: Samburu, Kassner 483 (lectotype: BM, designated by Paton et al. (2009)).*Plectranthus emanueli* Buscal. & Muschl., Bot. Jahrb. Syst. 49: 484. 1913. Types: Kenya, Guaso Nyiro valley, but probably from elsewhere, von Aosta 1558 (holotype: B, destroyed); neotype: Eritrea, Nefasit, Mt Bizen, Ryding et al. 2034 (neotype: UPS; isoneotype: ASMU, ETH, designated by Ryding (2001)).*Plectranthus buraensis* S.Moore, J. Bot. 54: 290. 1916. Type: Kenya, Teita District: Bura, A. Buchanan s.n. (holotype: BM).**Distribution.** Eritrea to Rwanda and Tanzania.***Equilabium mafiense* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201352-1

*Plectranthus mafiensis* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 267. 2009. Type: Tanzania, Mafia I., Kikutani, Greenway 5218 (holotype: EA; isotype: K).**Distribution.** Tanzania (Mafia I.).***Equilabium masukense* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201353-1

*Plectranthus masukensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 405. 1900. Type: Malawi, Masuku (Masuka) Plateau, Whyte 299 (holotype: K).**Distribution.** Kenya to N. Zambia.



***Equilabium masukense* (Baker) Mwany. & A.J.Paton var. *masukense*.**

*Orthosiphon nyasicus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 373. 1900.

*Plectranthus nyasicus* (Baker) M.R.Ashby, J. Bot. 76: 47. 1938. Type: Malawi, “north Nyassa”, 1896, Whyte s.n. (holotype: K).

*Plectranthus brevipes* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 406. 1900.

Type: Malawi, Nyika Plateau, Whyte s.n. (lectotype: K (K000430762), designated by Paton et al. (2009)).

**Distriution.** Kenya to N. Zambia.

***Equilabium masukense* (Baker) Mwany. & A.J.Paton var. *dissectum* (A.J.Paton) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201354-1

*Plectranthus masukensis* var. *dissectus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 264. 2009.

Type: Tanzania, Ufipa District: Sumbawanga, Tatanda Mission, Bidgood, Mbago & Vollesen 2383 (holotype: K; isotype: DSM).

**Distribution.** W. Tanzania.

***Equilabium megafolium* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201355-1

*Plectranthus megafolius* A.J.Paton, Fl. Zambes. 8(8): 217. 2013.

*Plectranthus macrophyllus* A.J.Paton, nom. illegit. in F.T.E.A., Lamiaceae: 262. 2009, non Blume, Bijdr. Fl. Ned. Ind. 14: 835, 1826. Type: Tanzania, Pare Dist., Mkomazi Game Reserve, 6 km on Kisiwani–Mnazi road, Abdallah & Vollesen 95/181 (holotype: K; isotypes: C, NHT, P).

***Equilabium molle* (Aiton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201356-1

*Ocimum molle* Aiton, Hort. Kew. 2: 322. 1789.

*Plectranthus mollis* (Aiton) Spreng., Syst. Veg. 2: 690. 1825.

*Plectranthus secundus* Roxb., Fl. Ind. ed. 1832, 3: 20. 1832. Nom. superfl. based on *Ocimum molle* Aiton. Type: Cultivated, native of the East Indies. Introduced by Sir Joseph Banks in 1781 (holotype: BM).

*Ocimum maypureense* Roth, Nov. Pl. Sp.: 271. 1821.

*Plectranthus maypurensis* (Roth) Spreng., Syst. Veg. 2: 691. 1825. Type: India, Heyne s.n. in Wall. Cat. 2736C (holotype B, destroyed; isotypes: K(K000820180), K-W (K001116983)).

*Plectranthus incanus* Link, Enum. Hort. Berol. Alt. 2: 120. 1822. Type: Cultivated, (B, destroyed).

*Plectranthus divaricatus* Weinm., Syll. Pl. Nov. 1: 68. 1824. Type: Cultivated (not seen).

*Ocimum cordifolium* Hamilton in D.Don Prodr. Fl. Nepal.: 116. 1825. nom inval.

*Plectranthus cordifolius* Buch.-Ham. ex D.Don, Prodr. Fl. Nepal.: 116. 1825. Type: Nepal, Wall. Cat. 2736A (holotype: not at BM; neotype: K (K001116984), isoneotype: K (K000820186); K-W (K001116982) designated by Suddee et al. (2004)).

**Distribution.** Indian Subcontinent to N. Myanmar.

***Equilabium orbiculare* (Gürke) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201357-1

*Plectranthus orbicularis* Gürke, Bot. Jahrb. Syst. 19: 203. 1894. Types: Tanzania, Usambara Mts, Upanga swamp, Holst 4159 (syntype: B, destroyed) & Zanzibar, Stuhlmann 826 (syntype: B, destroyed; isosyntype: HBG).

*Plectranthus sphaerophyllus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 410. 1900. Types: Tanzania, Uzaramo District: Dar es Salaam, Kirk s.n. (syntype: K) & Zanzibar, Kirk s.n. (syntype: K).

**Distribution.** E. Tanzania (incl. Zanzibar, Pemba).

***Equilabium parvum* (Oliv.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201358-1

*Plectranthus parvus* Oliv., Trans. Linn. Soc. London, Bot. 2: 347. 1887. Type: Tanzania, Kilimanjaro, H.H. Johnston s.n. (holotype: K).

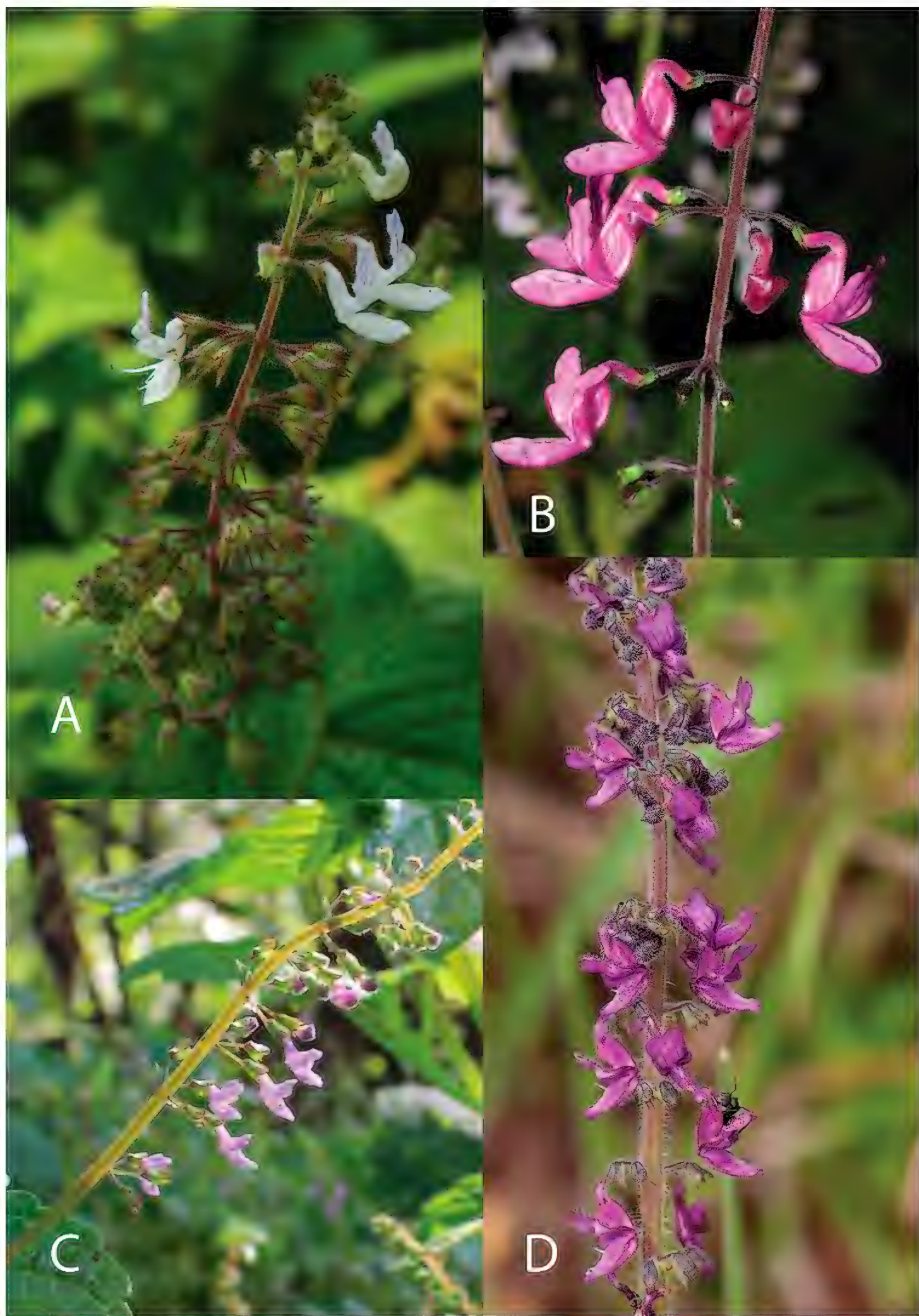
**Distribution.** Uganda to N. Zambia.

***Equilabium pauciflorum* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201359-1

*Plectranthus pauciflorus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 405. 1900. Type: Tanzania, Shinyanga District: Msalala [Misilala], Hannington s.n. (holotype: K).





**Figure 7.** Species of *Equilabium* 2. **A** *Equilabium laxiflorum* (Photo: Bart Wursten) **B** *E. petiolare* (Photo: Neil Crouch) **C** *E. subincisum* (Photo: K. Smitha) **D** *E. stenophyllum* (Photo: Bart Wursten).



*Plectranthus ugandensis* S.Moore, J. Linn. Soc., Bot. 37: 200. 1903. Type: Uganda, Kigezi District: Rukiga [Ruchigga], Bagshawe 532 (holotype: BM).

*Plectranthus auriculatus* Robyns & Lebrun, Rev. Zool. Bot. Africaines 16: 353. 1928. Type: DRC, Kivu, Saké, Katouzi, Robyns 2486 (holotype: BR, isotype: K).

**Distribution.** DRC, East Africa, Zambia.

***Equilabium petiolare* (Benth.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201360-1

Fig. 7B

*Plectranthus petiolaris* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 228. 1838. Type: South Africa, Eastern Cape, between Umtata and Umzimvubu Rivers, 1836, Drège 4773b (K lectotype), lectotypified by Codd (1975).

*Plectranthus kuntzei* Gürke in C.E.O.Kuntze, Revis. Gen. Pl. 3(2): 260. 1898. Type: South Africa, KwaZulu-Natal, Clairmont, 18 Oct. 1913, Kuntze s.n. (holotype: NY; isotype: K).

**Distribution.** S. Mozambique to South Africa.

***Equilabium pinetorum* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201361-1

*Plectranthus pinetorum* A.J.Paton, Fl. Zambes. 8(8): 224. 2013. Type: Malawi, Mulanje, Sombani basin, 15 Feb. 1992, Goyder & Paton 3660 (holotype: K).

**Distribution.** Malawi and E. Zimbabwe.

***Equilabium pulcherissimum* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201362-1

*Plectranthus pulcherissimus* A.J.Paton, Fl. Zambes. 8(8): 214. 2013. Type: Zambia, Mwinilunga Dist., Kalene Hill, 5 km N of bridge over Zambezi R. on Kalene Hill–Jimbe Bridge road, 2 Mar.1995, Harder, Zimba, Luwiika & Nawa 2854 (holotype: K; isotype: MO).

**Distribution.** DRC and Zambia.

***Equilabium pubescens* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201363-1

*Plectranthus pubescens* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 416. 1900. Type: Malawi, Mt Malosa, Nov. 1896, Whyte s.n. (holotype: K).

*Plectranthus manganjensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 406. 1900. Types: Malawi, Manganja Highlands, iv.1859, Kirk (syntype: K); Malawi, Mt Zomba, Dec. 1896, Whyte (syntype: K).

*Plectranthus nyikensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 416. 1900. Type: Malawi, Nyika Plateau, n.d., Whyte 162 (holotype: K).

**Distribution.** SW. Tanzania to Mozambique.

***Equilabium radiatum* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201364-1

*Plectranthus radiatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 277. 2009. Type: Tanzania, Tunduru District: 13 km NW of Tunduru, Milne-Redhead & Taylor 7842 (holotype: K).

**Distribution.** S. Tanzania.

***Equilabium rungwense* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201365-1

*Plectranthus rungwensis* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 252. 2009. Type: Tanzania, Rungwe District: NW slope of Mt Rungwe on N slope of Mwashitu Hill, above Sinihi stream, Mwasumbi 16222 (holotype: K; isotypes: DSM, MO).

**Distribution.** Tanzania (Mt. Rungwe).

***Equilabium scopulicola* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201366-1

*Plectranthus scopulicola* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 259. 2009. Type: Tanzania, Lushoto District: World's View, 1.5 km W of Gologolo, Drummond & Hemsley 2846 (holotype: K (K000431939); isotypes: BR, EA, K).

**Distribution.** Tanzania (W. Usambara Mts.).

***Equilabium selukwense* (N.E.Br.) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201367-1

*Plectranthus selukwensis* N.E.Br., Bull. Misc. Inform. Kew 1906: 167. 1906. Type: Zimbabwe, Shurugwi (Selukwe), Nov. 1899, Cecil 123 (holotype: K).

**Distribution.** Zambia to Zimbabwe.

***Equilabium spananthum* (A.J.Paton, Friis & Sebsebe) A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201368-1

*Plectranthus spananthus* A.J.Paton, Friis & Sebsebe, Webbia 73(2): 216. 2018. Type: Ethiopia, Somali Regional State, Afder Zone, El Kere Woreda (in Bale floristic province of the Flora of Ethiopia and Eritrea), on road from Imi to El Kere, 10 km N of El Kere, I. Friis et al. 15539 (holotype: ETH; isotypes: C, K).

**Distribution.** Ethiopia.

***Equilabium stenophyllum* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201369-1

Fig. 7D

*Plectranthus stenophyllus* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 402. 1900. Type: Malawi, Shire Highlands, near Blantyre, 1887, Last s.n. (holotype: K).

**Distribution.** S. Tanzania to S. Trop. Africa.

***Equilabium stenosphon* (Baker) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201370-1

*Plectranthus stenosphon* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 415. 1900. Type: Malawi, R. Shire, 1863, Kirk s.n. (lectotype: K designated by Paton et al. (2013)).

*Plectranthus albocaeruleus* N.E.Br., Bull. Misc. Inform. Kew 1901: 130. 1901. Type: Malawi, Zomba, plant cultivated at Kew raised from seed sent June 1898, Mahon s.n. (holotype: K).

**Distribution.** S. Malawi to C. Mozambique and Zimbabwe.



***Equilabium stoltzii* (Gilli) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201371-1

*Plectranthus stoltzii* Gilli, Ann. Naturhist. Mus. Wien 77: 40. 1973. Type: Tanzania, Rungwe Dist., Kyimbila, 6 Oct. 1911, Stolz 914 (holotype: W; isotypes: B, C, G, K, LD, M, STU, Z).

**Distribution.** SW. Tanzania to N. Malawi.

***Equilabium subincisum* (Benth.) Mwany., Smitha & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201372-1

Fig. 7C

*Plectranthus subincisus* Benth. in N. Wallich, Pl. Asiat. Rar. 2: 16. 1830. Type: India, Tamil Nadu: Courtallum, 1829, Wallich, Cat. No. 2737 (holotype: K (K000820179); isotype: K-W (K001116985)).

**Distribution.** S. India, Sri Lanka. Occurrence in Sri Lanka is questionable and it is likely to be extinct there (Cramer 1981).

***Equilabium vesiculare* (A.J.Paton) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201373-1

*Plectranthus vesicularis* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 272. 2009. Type: Tanzania, Kilwa Dist., Kilunda, 6.5 km (4 mile), 24 Apr. 1971, Ludanga in MRC 1301 (holotype: K; isotype: EA).

**Distribution.** Tanzania to N. Mozambique.

***Equilabium viphyense* (Brummitt & Seyani) Mwany., Culham & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201374-1

*Plectranthus viphyensis* Brummitt & Seyani, Kew Bull. 42: 692. 1987. Type: Malawi, Mzimba Dist., Viphya, 11 Jan. 1970, Pawek 3338 (holotype: K).

**Distribution.** Tanzania to S. Trop. Africa.

***Equilabium viphyense* subsp. *viphyense*****Distribution.** Tanzania to S. Trop. Africa.***Equilabium viphyense* subsp. *zebrarum* (Brummitt & Seyani) Mwany. & A.J.Paton, comb. nov.**

urn:lsid:ipni.org:names:77201375-1

*Plectranthus zebrarum* Brummitt & Seyani, Kew Bull. 42: 694. 1987.*Plectranthus viphyensis* subsp. *zebrarum* (Brummitt & Seyani) A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 276. 2009. Type: Malawi, Nyika Plateau, Chelinda, below No.1 dam, 27 Feb.1982, Brummitt, Polhill & Banda 16140 (holotype: K).**Distribution.** E. Zambia to N. Malawi.***Equilabium wollastonii* (S.Moore) Mwany. & A.J. Paton, comb. nov.**

urn:lsid:ipni.org:names:77201378-1

*Plectranthus wollastonii* S.Moore, J. Linn. Soc., Bot. 38: 272. 1908. Type: Uganda, E Ruwenzori, Wollaston s.n. (holotype: BM).**Distribution.** EC. Trop. Africa to S. Kenya.**Genus *Plectranthus******Plectranthus* L'Hér., Stirp. Nov.: 84, verso 1788, nom. cons.**

Figs 8, 9

*Germanea* Lam., Encycl. 2: 690. 1788. Lectotype species: *G. urticifolia* Lam. (here placed under *Plectranthus fruticosus* L'Hér.) designated by Heath (2001).**Lectotype species.** *Plectranthus fruticosus* L' Hér. (typ. cons.).**Description.** Perennial, rarely annual herbs or soft-wooded shrubs, sometimes succulent; sometimes with a tuberous base. Leaves opposite. Inflorescence thyrsoïd, usually lax; cymes sessile, 1–3-flowered; bracts subtending cymes persistent. Flowers pedicelate. Calyx funnel-shaped straight, with pedicel attaching symmetrically at calyx base, not opposite posterior lip, two-lipped; throat glabrous within, open; posterior lip 1-lobed, broader than lobes of anterior lip, shortly decurrent on tube or not; anterior lip 4-lobed; lobes lanceolate; lateral lobes broader at base than medial lobes and held closer to the median lobes than the posterior lip; median lobes usually fused for a

greater distance than the lateral and median lobe. Corolla two-lipped with lips equal in length; tube straight or gently curved downwards, often gibbous, saccate or almost spurred a base, more rarely dilating gradually towards throat; posterior lip 4-lobed erect, often becoming reflexed; anterior lip cucullate or concave straight or becoming reflexed. Stamens 4, very rarely only 2 fertile (*P. zuluensis*); filaments not fused together (anterior stamen and adjacent posterior stamen sometimes fused in *P. alboviolaceus*), held within the anterior lip or becoming free from it and sometimes coiling downwards away from style after anthesis. Style bifid with lobes subulate. Nutlets ovoid.

72 species in Southern and Tropical Africa and Madagascar and including one in Sri Lanka.

***Plectranthus alboviolaceus* Gürke, Bot. Jahrb. Syst. 30: 397. 1901**

*Plectranthus alboviolaceus* Gürke, Bot. Jahrb. Syst. 30: 397. 1901. Type: Tanzania, Rungwe District: Kalengalenga Mts, Goetze 1140 (isotype: E).

*Plectranthus rhomboideus* Gürke, Bot. Jahrb. Syst. 36: 135. 1905. Type: Tanzania, Kilimanjaro, Engler 1775 (holotype: B, destroyed).

**Distribution.** Ethiopia to S. Trop. Africa.

***Plectranthus ambiguus* (Bolos) Codd, Bothalia 8: 159. 1964**

Fig. 8A

*Orthosiphon ambiguus* Bolus, J. Linn. Soc., Bot. 18: 394. 1881. Type: South Africa, Eastern Cape, near Grahamstown, MacOwen (holotype: BOL; isotype: SAM).

*Plectranthus coloratus* E.Mey., Comm. Pl. Afr. Austr.: 228. 1838., nom. illeg., non. *P. coloratus* D.Don.

*Plectranthus dregei* Codd, Fl. Pl. Africa 32: t. 1244. 1957. Type: South Africa, between Umgazana and Umzimvubu rivers, 19 May 1832, Drège a (syntypes: BM, HBG, K (K000430874), MO, P(P00450719, P00450717), S); between Umizimkulu and Umkomass Rivers, 1 May 1832, Drège b (syntype: P(00450718)).

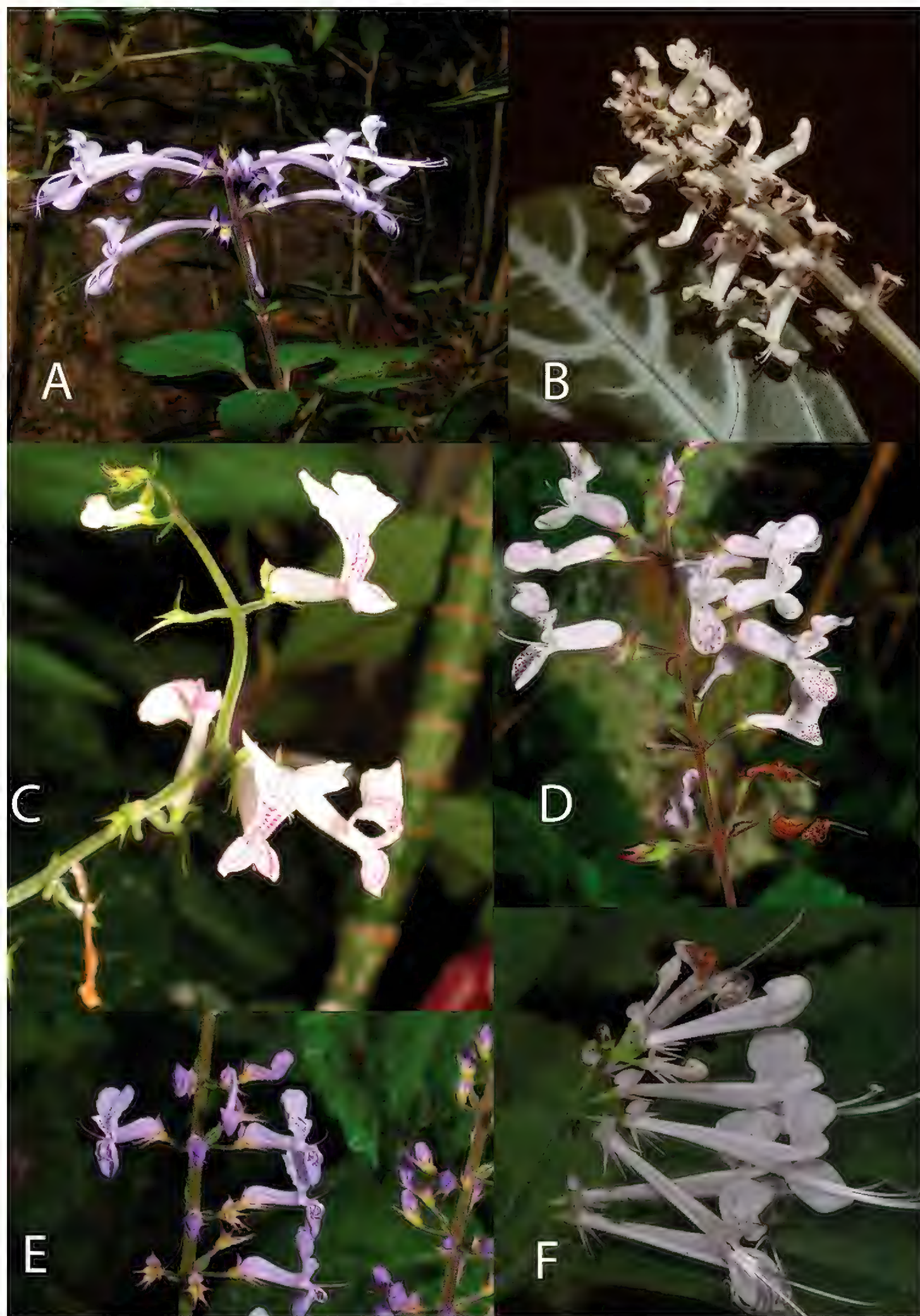
**Distribution.** South Africa: E. Cape Prov. to N. KwaZulu-Natal.

***Plectranthus amplexicaulis* Hedge, Fl. Madag. 175: 203. 1998**

*Plectranthus amplexicaulis* Hedge, Fl. Madag. 175: 203. 1998. Type: Madagascar, Andrambovato, à l'Est de Fianarantsoa, H. Humbert & R.P.R. Capuron 28517 (holotype: P).

**Distribution.** Madagascar.





**Figure 8.** Species of *Plectranthus* 1. **A** *Plectranthus ambiguus* (Photo: Neil Crouch) **B** *P. brevicaulis* (Photo: Jean Bosser) **C** *P. brevimentus* (Photo: Neil Crouch) **D** *P. ciliatus* (Photo: Neil Crouch) **E** *P. fruticosus* (Photo: Neil Crouch) **F** *P. ecklonii* (Photo: Neil Crouch).

***Plectranthus antongilicus* Hedge, Fl. Madag. 175: 160. 1998**

*Plectranthus antongilicus* Hedge, Fl. Madag. 175: 160. 1998. Type: Madagascar, around Rantabe, baie d'Antongil, Perrier de la Bâthie 10475 (holotype: P; isotypes: MO, TAN).

**Distribution.** Madagascar.

***Plectranthus asymmetricus* A.J.Paton, Fl. Zambes. 8(8): 207. 2013**

*Plectranthus asymmetricus* A.J.Paton, Fl. Zambes. 8(8): 207. 2013. Type: Zambia, Mbalala Dist., Chinakila, Jembele Forest, 13 Jan.1965, Richards 19510 (holotype: K).

**Distribution.** Zambia.

***Plectranthus atrovioleaceus* Hedge, Fl. Madag. 175: 156. 1998**

*Plectranthus atrovioleaceus* Hedge, Fl. Madag. 175: 156. 1998. Type: Madagascar, Haute vallée de la Rienana (bassin du Matitanana). 2e voyage. Humbert 3464 (holotype: P; isotype: E).

**Distribution.** Madagascar.

***Plectranthus betamponus* Hedge, Fl. Madag. 175: 175. 1998**

*Plectranthus betamponus* Hedge, Fl. Madag. 175: 175. 1998. Type: Madagascar, Reserve Intégrale #1 Betampona, approximately 3 km N of Fotsimavo, Schatz, Goldblatt, Rakotozafy & Randrianasolo 2682 (holotype: MO; isotype: P).

**Distribution.** Madagascar.

***Plectranthus bracteolatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 245. 2009**

*Plectranthus bracteolatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 245. 2009. Type: Tanzania, Morogoro District: Uluguru Mts, Schlieben 4215 (holotype: K; isotypes: K, MO, PRE, SRGH).

**Distribution.** Tanzania.

**Notes.** More work is needed to be confident about the generic placement of this species. A preliminary investigation suggests a possible relationship to *Isodon* or a clade basal to the Ocimeae and Plectranthinae.

***Plectranthus brevicaulis* (Baker) Hedge, Fl. Madag. 175: 154. 1998**

Fig. 8B

*Orthosiphon brevicaulis* Baker, J. Linn. Soc., Bot. 21: 433. 1885. Type: Madagascar, central, Baron 2656 (holotype: K; isotype: P).

**Distribution.** Madagascar.

***Plectranthus brevimentus* T.J.Edwards, Bothalia 35: 149. 2005**

Fig. 8C

*Plectranthus brevimentus* T.J.Edwards, Bothalia 35: 149. 2005. Type: South Africa, Eastern Cape; Lupatana River Gorge; ca 1km from sea, T.J.Edwards, D.G.A. Styles, N.Crouch, N.D.U.Bellstedt, C.J.Potgieter 3210 (holotype: NU).

**Distribution.** South Africa: Eastern Cape Prov.

***Plectranthus canescens* Benth., Labiat. Gen. Spec.: 33. 1832**

*Plectranthus canescens* Benth., Labiat. Gen. Spec.: 33. 1832. Type: Madagascar, Bojer s.n. (lectotype: K, designated by Hedge et al. (1998); isolectotype: P).

**Distribution.** Madagascar.

***Plectranthus capuronii* Hedge, Fl. Madag. 175: 164. 1998**

*Plectranthus capuronii* Hedge, Fl. Madag. 175: 164. 1998. Type: Madagascar, montagnes au nord de Mangindrano jusqu'aux sommets d'Ambohimirahavy, Humbert & Capuron 25183 (holotype: P; isotypes: B, BR, K, MA, MO, NY, TAN, WAG).

**Distribution.** Madagascar.

***Plectranthus chimanimanensis* S.Moore, J. Linn. Soc., Bot. 40: 174. 1911**

*Plectranthus chimanimanensis* S.Moore, J. Linn. Soc., Bot. 40: 174. 1911. Type: Mozambique, Gazaland, 26 Sept. 1906, Swynnerton 2019 (holotype: BM; isotype: K).

**Distribution.** E. Zimbabwe to W. Mozambique.



***Plectranthus ciliatus* E.Mey., Comm. Pl. Afr. Austr.: 227. 1838**

Fig 8D

*Plectranthus ciliatus* E.Mey., Comm. Pl. Afr. Austr.: 227. 1838. Type: South Africa, Natal, Omsamvubo [Umzimvubu] Drège 4777 (lectotype: K (K000430860), designated by Codd (1975)).

*Plectranthus natalensis* Gürke, Bull. Herb. Boissier 6: 552. 1898. Type: South Africa, Natal, Camperdown, Rehmann 7701 (holotype: Z).

**Distribution.** South Africa and Swaziland.

***Plectranthus clementiae* Hedge, Fl. Madag. 175: 168. 1998**

*Plectranthus clementiae* Hedge, Fl. Madag. 175: 168. 1998. Type: Madagascar, prov. de Tuléar, près de la réserve intégrale d'Andohahela, parcelle 1, 33km sur la route vers Ranomafana, à partir de la RN 13, Clement, Phillipson & Rafamantanantsoa 2097 (holotype: E; isotypes: MO, P).

**Distribution.** Madagascar.

***Plectranthus cordatus* A.J.Paton & Phillipson, nom. nov.**

urn:lsid:ipni.org:names:77201380-1

*Plectranthus cardiophyllus* Hedge, Fl. Madagasc. 175: 172. 1998, nom. illeg., non. *P. cardiophyllus* Hemsl. Type: Madagascar, Mt Vatovavy, bassin du Mananjary, Perrier de la Bâthie 10441 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus decaryi* Hedge, Fl. Madag. 175: 182. 1998**

*Plectranthus decaryi* Hedge, Fl. Madag. 175: 182. 1998. Type: Madagascar, Mt Maromizaha, près d'Analamazaotra, Perrier de la Bâthie 16027 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus delicatissimus* Hedge, Fl. Madag. 175: 197. 1998**

*Plectranthus delicatissimus* Hedge, Fl. Madag. 175: 197. 1998. Type: Madagascar, prov. d'Antsiranana, réserve spéciale 5, Manongarivo, sud-est d'Ankaramy et à 1–3 km au sud d'Ambalafary, Schatz 3204 (holotype: MO; isotype: E).

**Distribution.** Madagascar.

***Plectranthus ecklonii* Benth. in A.P.de Candolle, Prodr. 12: 64. 1848**

Fig. 8F

*Plectranthus ecklonii* Benth. in A.P.de Candolle, Prodr. 12: 64. 1848. Type: South Africa, Cape, slopes of Katberg, Ecklon s.n. (holotype: K).

**Distribution.** South Africa.

***Plectranthus elegans* Britten, Trans. Linn. Soc. London, Bot. 4: 36. 1894**

*Plectranthus elegans* Britten, Trans. Linn. Soc. London, Bot. 4: 36. 1894. Type: Malawi, Mulanje, 1891, Whyte s.n. (holotype: BM).

*Plectranthus mahonii* (Baker) N.E.Br. ex Hook.f., Bot. Mag. 128: t. 7818. 1902.

*Coleus mahonii* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 434. 1900. Type: Cultivated plant, raised from seed sent from Malawi by Mahon 19 Dec.1899 (holotype: K).

**Distribution.** S. Malawi.

***Plectranthus elegantulus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1005 1903**

*Germanea elegantula* Briq., Bull. Herb. Boissier, sér. 2, 3: 1005. 1903. Type: South Africa, Natal, Karkloof, Rehmann 7368 (holotype: Z).

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus ellipticus* Hedge, Fl. Madag. 175: 186. 1998**

*Plectranthus ellipticus* Hedge, Fl. Madag. 175: 186. 1998. Type: Madagascar, haute vallée de la Rienana, Hubert 3638 (holotype: P; isotype: E).

**Distribution.** Madagascar.

***Plectranthus emirnensis* (Baker) Hedge, Fl. Madag. 175: 187. 1998**

*Orthosiphon emirnensis* Baker, J. Linn. Soc., Bot. 21: 433. 1885. Type: Madagascar, centre, Baron 1056 (lectotype: K, designated by Hedge et al. (1998)).

*Orthosiphon hildebrandtii* Vatke, Abh. Naturwiss. Vereins Bremen 9: 134. 1885. nom. superfl. based on Baron 1506.

*Ocimum hildebrandtii* (Vatke) Briq. in H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam. 4(3a): 372. 1897., nom. illeg.

*Ocimum siphonanthum* Briq., Bull. Herb. Boissier 2: 121. 1894. Type: Madagascar, Betsileo, near Ankafina, Hildebrandt 3947 (holotype: G, not seen; isotype: P).

**Distribution.** Madagascar.

***Plectranthus ernstii* Codd, Fl. Pl. Africa 47: t. 1855. 1982**

*Plectranthus ernstii* Codd, Fl. Pl. Africa 47: t. 1855. 1982. Type: South Africa, Kwa Zulu Natal, Oribi Gorge, Fairacres Farm, van Jaarsveld 2196; Cultivated in Pretoria sub Garden 24529 in PRE 57984 (holotype: PRE; isotype: NBG).

**Distribution.** South Africa: E. Cape Prov. to S. KwaZulu-Natal.

***Plectranthus forsythii* Hedge, Fl. Madag. 175: 177. 1998**

*Plectranthus forsythii* Hedge, Fl. Madag. 175: 177. 1998. Type: Madagascar, entre Itandraka et Ambohimitombo, Forsyth Major 727 (holotype: K, isotype: BM).

**Distribution.** Madagascar.

***Plectranthus fruticosus* L'Hér., Stirp. Nov.: 85. 1788**

Fig. 8E

*Plectranthus fruticosus* L'Hér., Stirp. Nov.: 85. 1788. Type: cultivated, illustration t.41 of L'Hér. Stirp. Nov. fasc. 4. 1788 (lectotype: Illustration, designated by Codd (1975)).

*Germanea urticifolia* Lam., Encycl. 2: 691. 1788.



*Plectranthus urticifolius* (Lam.) Salisb., Prodr. Stirp. Chap. Allerton: 88. 1796. Type: Cultivated, illustration, Tabl. Encycl. 3: 514. 1819 (lectotype: Illustration, designated by Codd (1975)).

*Plectranthus galpinii* Schltr., J. Bot. 1896: 393. 1896. Type: South Africa, Transvaal, Barberton, Rimers Creek, Galpin 939 (holotype: B, destroyed; isotype: PRE).

*Plectranthus arthropodus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1073. 1903. Type: South Africa, Transvaal, Houtbosch, Rehman 6151 (holotype: Z).

*Plectranthus charianthus* Briq., Bull. Herb. Boissier, sér. 2, 6: 824. 1906. Type: South Africa, Transvaal, Houtbosch, Rehman 6157 (holotype: Z).

*Plectranthus peglerae* T.Cooke, Bull. Misc. Inform. Kew 1909: 378. 1909. Type: South Africa, Eastern Cape, Kentani, Pegler 377 (holotype: K; isotypes: GRA, PRE).

*Plectranthus behrii* Compton, J. S. African Bot. 11: 122. 1945. Type: South Africa, Pondoland, Lusikisiki, Behr, sub NBG 1252/31 (holotype: SAM; isotype: PRE).

**Distribution.** S. Mozambique to South Africa.

***Plectranthus gardneri* Thwaites, Enum. Pl. Zeyl.: 237. 1860**

*Plectranthus subincisus* Benth. var. *gardneri* (Thwaites) Hook. f. in Flora of British India 4: 622. 1885. Type: Sri Lanka, Newera Ellis, Gardner in Thwaites CP16 (holotype: PDA; isotype: K).

**Distribution.** Sri Lanka.

***Plectranthus gibbosus* Hedge, Fl. Madag. 175: 200. 1998**

*Plectranthus gibbosus* Hedge, Fl. Madag. 175: 200. 1998. Type: Madagascar, Fenerive, Decary 3922 (holotype: P(P00541407); isotype: P(P00541408)).

**Distribution.** Madagascar.

***Plectranthus grallatus* Briq., Bull. Herb. Boissier, sér. 2, 3: 1004. 1903**

*Germanea grallata* Briq. *loc. cit* as alternative name). Type: South Africa, Natal, Mt Frere, Jan. 1895, Schlechter 6415 (holotype: Z; isotype: GRA).

*Plectranthus transvaalensis* Briq., Bull. Herb. Boissier, sér. 2, 3: 1005. 1903.

*Germanea transvaalensis* Briq., *loc. cit* as alternative name. Type: South Africa, Transvaal, Houtbosch, Rehmann 6154 (holotype: Z).

*Plectranthus krookii* Gürke, Ann. K. K. Naturhist. Hofmus. 20: 48. 1905. Type: South Africa, Griqualand East, R. Umzinklaw, Krook in Herb Penther 1698 (holotype: W).

*Plectranthus praetervisus* Briq., Bull. Herb. Boissier, sér. 2, 6: 825. 1906. Type: South Africa, Natal, Drakensberg, Mountain Prospect, Rehmann 6965 (holotype: Z).

*Plectranthus cooperi* T.Cooke, Bull. Misc. Inform. Kew 1909: 377. 1909. Type: South Africa: Orange River Colony, Cooper, 2982 (lectotype: K, designated here).

**Distribution.** South Africa, Lesotho.

***Plectranthus grandibracteatus* Hedge, Fl. Madag. 175: 152. 1998**

*Plectranthus grandibracteatus* Hedge, Fl. Madag. 175: 152. 1998. Type: Madagascar, vallée de l'Androranga, affluent de la Bemarivo aux env. Antongondriha, mont Anjenabe, Mubolt & Cuperon 24144 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus guruensis* A.J.Paton, Fl. Zambes. 8(8): 205. 2013**

*Plectranthus guruensis* A.J.Paton, Fl. Zambes. 8(8): 205. 2013. Type: Mozambique, Gurué Dist., Rio Malema, Marope, 22 km from Gurué, 1 Aug. 1979, de Koning 7530 (holotype: LMU; isotype: LISC).

**Distribution.** Mozambique.

***Plectranthus hexaphyllus* Baker, J. Linn. Soc., Bot. 20: 231. 1883**

*Plectranthus hexaphyllus* Baker, J. Linn. Soc., Bot. 20: 231. 1883. Type: Madagascar, central, Baron 1799 (holotype: K; isotype: P).

**Distribution.** Madagascar.

***Plectranthus hilliardiae* Codd, Bothalia 11: 282. 1974**

*Plectranthus hilliardiae* Codd, Bothalia 11: 282. 1974. Type: South Africa, Natal, near Umtamvuna River, Hilliard & Burt 6767 (holotype: PRE; isotype: NU).

**Distribution.** South Africa: E. Cape Prov. to KwaZulu-Natal.

***Plectranthus hilliardiae* subsp. *hilliardiae*.**

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus hilliardiae* subsp. *australis* van Jaarsv. & A.E.van Wyk, *Bothalia* 31: 44. 2001**

*Plectranthus hilliardiae* subsp. *australis* van Jaarsv. & A.E.van Wyk, *Bothalia* 31: 44. 2001. Type: South Africa, Eastern cape, Mbotyi forest, van Jarsveld, Bellsredt, Dekker, van Wyk & Adams 16345 (holotype: NBG).

**Distribution.** South Africa: E. Cape Prov.

***Plectranthus hirsutus* Hedge, *Fl. Madag.* 175: 158. 1998**

*Plectranthus hirsutus* Hedge, *Fl. Madag.* 175: 158. 1998. Type: Madagascar, Mont Kalabenono, Perrier de la Bâthie 10397 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus hoslundoides* Scott-Elliot, *J. Linn. Soc., Bot.* 29: 44. 1891**

*Plectranthus hoslundoides* Scott-Elliot, *J. Linn. Soc., Bot.* 29: 44. 1891. Type: Madagascar, near Fort Dauphin, Scott- Elliot 2645 (holotype: K; isotype: P).

**Distribution.** Madagascar.

***Plectranthus humbertii* Hedge, *Fl. Madag.* 175: 194. 1998**

*Plectranthus humbertii* Hedge, *Fl. Madag.* 175: 194. 1998. Type: Madagascar, partie occidentale du massif du Marojejy, de la vallée de l'Ambatoharanana au bassin supérieur de l'Antsahaberoka, Humbert & Saboureaux 31311 (holotype: P; isotype: P).

**Distribution.** Madagascar.



***Plectranthus incrassatus* Hedge, Edinburgh J. Bot. 60: 246. 2003**

*Plectranthus incrassatus* Hedge, Edinburgh J. Bot. 60: 246. 2003. Type: Madagascar: massif de l'Anjanaharibe, à l'ouest d'Andapa, bassin de la Lokoho, Humbert, Capuron & Cours 24774 (holotype: P; isotype: K).

*Plectranthus pachyphyllus* Hedge, Fl. Madag. 175: 176. 1998., nom. illeg., non. *P. pachyphyllus* Gürke.

**Distribution.** Madagascar.

***Plectranthus laurifolius* Hedge, Fl. Madag. 175: 170. 1998**

*Plectranthus laurifolius* Hedge, Fl. Madag. 175: 170. 1998. Type: Madagascar, vallée de la Lokoho, mont Ambodilaitra, au nord d'Andranomiforitra, Humbert 23277 (holotype: P; isotype: MO).

**Distribution.** Madagascar.

***Plectranthus linearis* Hedge, Fl. Madag. 175: 191. 1998**

*Plectranthus linearis* Hedge, Fl. Madag. 175: 191. 1998. Type: Madagascar, pentes occidentales du massif du Marojejy, bassin de la Lokoho, à l'est d'Ambalamanasy, Humbert & Capuron 22069 (holotype: P; isotypes: MO, P).

**Distribution.** Madagascar.

***Plectranthus longiflorus* Benth., Labiat. Gen. Spec.: 33. 1832**

*Plectranthus longiflorus* Benth., Labiat. Gen. Spec.: 33. 1832. Type: Madagascar, forêt de Beforona, Bojer s.n. (holotype: K; isotype: P).

**Distribution.** Madagascar.

***Plectranthus longipetiolatus* Hedge, Fl. Madag. 175: 147. 1998**

*Plectranthus longipetiolatus* Hedge, Fl. Madag. 175: 147. 1998. Type: Madagascar, massif de Beampingaratra, du col de Bevava au sommet de Bekoho, Humbert 6432 (holotype: P; isotypes: B, E, K, MO, WAG).

**Distribution.** Madagascar.

***Plectranthus lucidus* (Benth.) van Jaarsv. & T.J.Edwards, Bothalia 27: 5. 1997**

*Plectranthus strigosus* var. *lucidus* Benth. in A.P.de Candolle, Prodr. 12: 68. 1848. Type: Eastern Cape, Bathurst, Burchell 3924, (holotype: K).

**Distribution.** South Africa: S. Cape Prov.

***Plectranthus macilentus* Hedge, Fl. Madag. 175: 170. 1998**

*Plectranthus macilentus* Hedge, Fl. Madag. 175: 170. 1998. Type: Madagascar, collines et plateaux de l'Ankarana du Nord, (Province de Diégo-Suarez), W de la grande route Mt Ambatopiraka, Antsiranana Humbert & Cours 32655 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus malvinus* van Jaarsv. & T.J.Edwards, Bothalia 27: 1. 1997**

*Plectranthus malvinus* van Jaarsv. & T.J.Edwards, Bothalia 27: 1. 1997. Type: Eastern Cape, 3129 (Port St Johns), Mount Sullivan, (-DA), E. van Jaarsveld & Bingham 10522 (holotype: NBG).

**Distribution.** South Africa: E. Cape Prov.

***Plectranthus mandalensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 405. 1900**

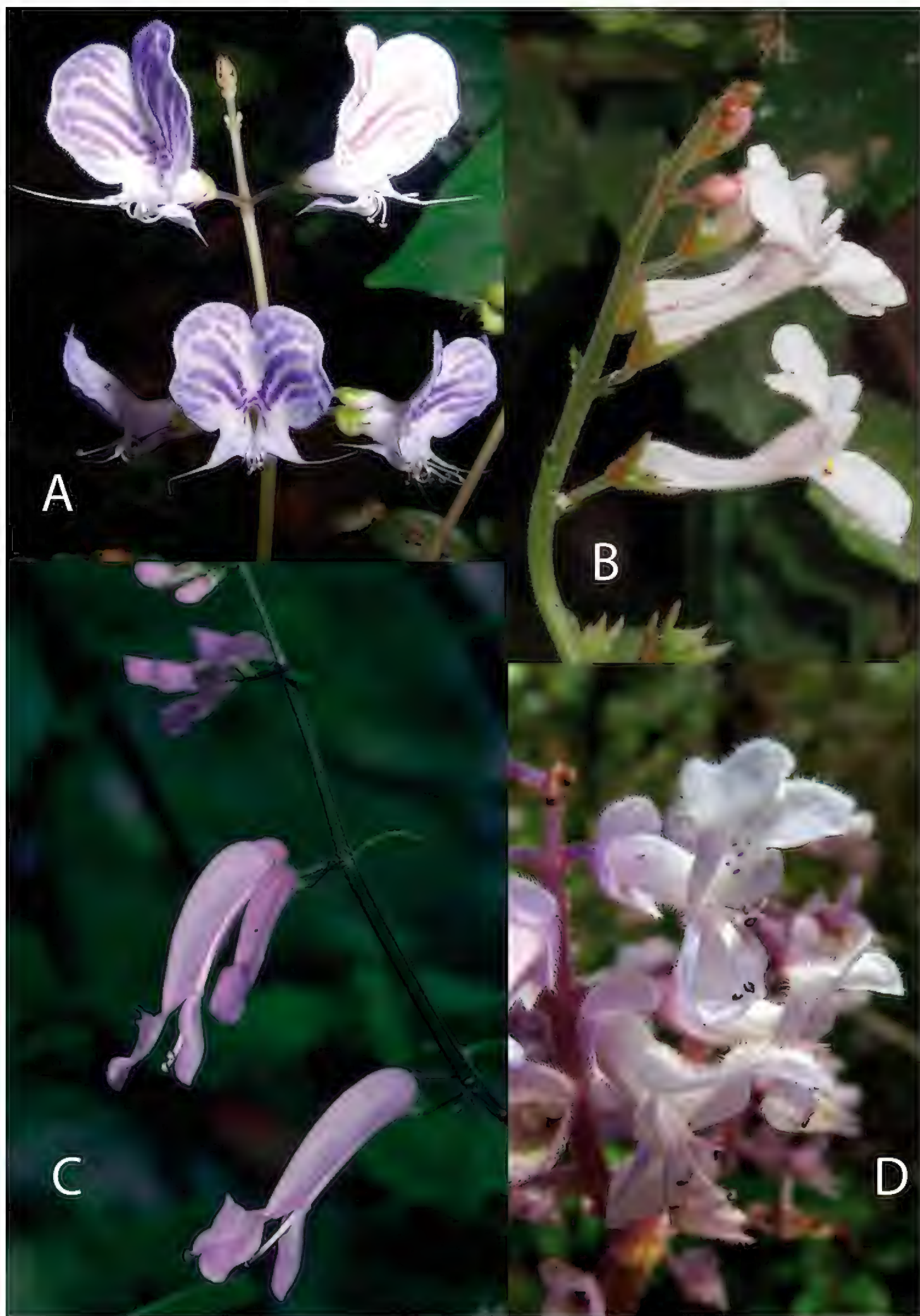
*Plectranthus mandalensis* Baker in D.Oliver & auct. suc. (eds.), Fl. Trop. Afr. 5: 405. 1900. Type: Malawi, Mandala, cultivated at Kew, Feb. 1893, Moir s.n. (holotype: K).

**Distribution.** Malawi (Mt. Mulanje), Mozambique (Mt. Namuli).

***Plectranthus membranaceus* (Scott-Elliot) Hedge, Fl. Madag. 175: 145. 1998**

*Plectranthus canescens* var. *membranaceus* Scott-Elliot, J. Linn. Soc., Bot. 29: 49. 1891. Type: Madagascar, between Angalampena and the sea, Scott-Elliot 3072 (holotype: K; isotype: P).

**Distribution.** Madagascar.



**Figure 9.** Species of *Plectranthus* 2. **A** *Plectranthus papilionaceus* (Photo: Patrick Ranirison) **B** *P. purpuratus* subsp. *montanus* (Photo: Neil Crouch) **C** *P. saccatus* var. *longitubus* (Photo RBG Kew) **D** *P. vestitus* (Photo: Patrice Antilahimena).



***Plectranthus mocquersii* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 233. 1898**

*Plectranthus mocquersii* Briq., Annuaire Conserv. Jard. Bot. Genève 2: 233. 1898.  
Type: Madagascar, Maroa, forest inland from bay d' Antongil, Mocquers 239 (holotype: G).

**Distribution.** Madagascar.

***Plectranthus mzimvubuensis* van Jaarsv., Bothalia 34: 30. 2004**

*Plectranthus mzimvubuensis* van Jaarsv., Bothalia 34: 30. 2004. Type: South Africa, Eastern Cape, near Ludonga village, Mzimvubu River, Ecca group shale cliffs, Van Jaarsveld, Xaba, Harower & Zwide 92 (holotype: PRE).

**Distribution.** South Africa: SE. Cape Prov.

***Plectranthus oblanceolatus* Hedge, Fl. Madag. 175: 161. 1998**

*Plectranthus oblanceolatus* Hedge, Fl. Madag. 175: 161. 1998. Type: Madagascar, partie occidentale du Massif du Marojejy, de la vallée de l'Ambatoharanana au bassin supérieur de l'Antsahaberoka, Humbert & Saboureaux 31614 (holotype: P; isotype: P).

**Distribution.** Madagascar.

***Plectranthus oertendahliae* T.C.E.Fr., Acta Horti Gothob. 1: 253. 1924**

*Plectranthus oertendahliae* T.C.E.Fr., Acta Horti Gothob. 1: 253. 1924. Type: cultivated from material collected near Port Shepstone, Uppsala, (holotype, UPS).

**Distribution.** South Africa: S. KwaZulu-Natal.

***Plectranthus ombrophilus* Hedge, Fl. Madag. 175: 166. 1998**

*Plectranthus ombrophilus* Hedge, Fl. Madag. 175: 166. 1998. Type: Madagascar, haute vallée de la Manampanihy, col de Saindro, Humbert 14005 (holotype: P; isotypes: B, E, G, MO, PRE).

**Distribution.** Madagascar.

***Plectranthus oribiensis* Codd, Fl. Pl. Africa 46: t. 1809. 1980**

*Plectranthus oribiensis* Codd, Fl. Pl. Africa 46: t. 1809. 1980. Type: South Africa, Port Shepstone, Oribi Gorge, van Jaarsveld 2198, cultivated in Pretoria sub Garden 24530 (holotype: PRE).

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus papilionaceus* Ranir. & Phillipson, Candollea 62: 158. 2007**

Fig. 9A

*Plectranthus papilionaceus* Ranir. & Phillipson, Candollea 62: 158. 2007. Type: Madagascar, Province de Diego-Suarez/Antsiranana: sous-préfecture de Vohémar, commune rurale de Daraina, forêt de Binara, P.Ranirison & L.Nusbaumer PR 993 (holotype: G; isotypes: K, MO, P, TEF).

**Distribution.** Madagascar.

***Plectranthus pichompae* Hedge, Fl. Madag. 175: 163. 1998**

*Plectranthus pichompae* Hedge, Fl. Madag. 175: 163. 1998. Type: Madagascar, partie occidentale du massif du Marojejy, de la vallée de l'Ambatoharanana au bassin supérieur de l'Antsahaberoka, Humbert & Saboureaux 31546 (holotype: P; isotype P).

**Distribution.** Madagascar.

***Plectranthus praetermissus* Codd, Fl. Pl. Africa 45: t. 1791 1979**

*Plectranthus praetermissus* Codd, Fl. Pl. Africa 45: t. 1791. 1979. Type: South Africa, Port St Johns, Stutterheim sub PRE 57330 (holotype: PRE).

**Distribution.** South Africa: SE. Cape Prov.

***Plectranthus purpuratus* Harv., Thes. Cap. 1: 53. 1860**

*Plectranthus purpuratus* Harv., Thes. Cap. 1: 53. 1860. Type: cultivated, ex Hort., Kew, from seed sent from Port Natal [KwaZulu-Natal: Durban], R. Vause s.n. (holotype: K).

**Distribution.** South Africa.

***Plectranthus purpuratus* subsp. *purpuratus***

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus purpuratus* subsp. *montanus* van Jaarsv. & T.J.Edwards, Bothalia 27: 4. 1997**

Fig. 9B

*Plectranthus purpuratus* subsp. *montanus* van Jaarsv. & T.J.Edwards, Bothalia 27: 4. 1997. Type: Swaziland, 2631 (Mbabane): Mbabane, Compton 32207 (holotype: NBG).

**Distribution.** South Africa: S. Mpumalanga to Swaziland.

***Plectranthus purpuratus* subsp. *tongaensis* van Jaarsv. & T.J.Edwards, Bothalia 27: 2. 1997**

*Plectranthus purpuratus* subsp. *tongaensis* van Jaarsv. & T.J.Edwards, Bothalia 27: 2. 1997. Type: South Africa, KwaZulu-Natal, 2732 (Ubombo): Kosi Bay, (-BB), Van Jaarsveld 12206 (holotype: NBG).

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus reflexus* van Jaarsv. & T.J.Edwards, Fl. Pl. Africa 51: t. 2034 1991**

*Plectranthus reflexus* van Jaarsv. & T.J.Edwards, Fl. Pl. Africa 51: t. 2034 1991. Type: South Africa, Port St Johns, western embankment of Bulowe River, van Jaarsveld, Campher & Dekker 10156 (holotype, NBG).

**Distribution.** South Africa: SE. Cape Prov.

***Plectranthus rosulatus* Hedge, Adansonia, sér. 3, 27: 321. 2005**

*Plectranthus rosulatus* Hedge, Adansonia, sér. 3, 27: 321. 2005. Type: Cultivated plants under glass, Royal Botanic Garden Edinburgh; specimen from Munich Botanic Garden, originally grown from seed collected in NW Madagascar, c. 50 km west of Sambava, in moss cushions in rain forest, by Mangelsdorff HC22 (holotype: E).

**Distribution.** NW. Madagascar.



***Plectranthus rubropunctatus* Codd, Bothalia 11: 420. 1975**

*Plectranthus rubropunctatus* Codd, Bothalia 11: 420. 1975. Type: South Africa, Barber-ton, Nelshootge Forest Station, Strey 4081 (holotype: PRE).

**Distribution.** South Africa: Limpopo to Swaziland.

***Plectranthus rubroviolaceus* Hedge, Fl. Madag. 175: 151. 1998**

*Plectranthus rubroviolaceus* Hedge, Fl. Madag. 175: 151. 1998. Type: Madagascar, con-treforts occidentaux du massif du Marojejy, près du col de Boanyanala, limite des bassins de la Lokoho et de l'Androranga, Humbert 23127 (holotype: P; isotypes: BR, G, MO, NY, S, TAN).

**Distribution.** Madagascar.

***Plectranthus saccatus* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 227. 1838**

*Plectranthus saccatus* Benth. in E.H.F.Meyer, Comm. Pl. Afr. Austr.: 227. 1838. Type: South Africa, Cape, Omsamwubo [Umzimvubu river, near Port St Johns], Drège 4771 (lectotype: K (K000430872), designated by Codd 1975; isoelectotypes: G, P, S).

**Distribution.** South Africa: SE. Cape Prov. to KwaZulu-Natal.

***Plectranthus saccatus* subsp. *saccatus***

**Distribution.** South Africa: SE. Cape Prov. to KwaZulu-Natal.

***Plectranthus saccatus* var. *saccatus***

**Distribution.** SE. Cape Prov. to KwaZulu-Natal.

***Plectranthus saccatus* var. *longitubus* Codd, Bothalia 11: 428. 1975**

Fig. 9C

*Plectranthus saccatus* var. *longitubus* Codd, Bothalia 11: 428. 1975. Type: South Africa, Natal, Ingwavuma District, 2732 (Ubombo), Gwalaweni forest (-AC), Edwards 2930 (holotype: PRE).

**Distribution.** South Africa: KwaZulu-Natal.

***Plectranthus saccatus* subsp. *pondoensis* van Jaarsv. & T.J.Edwards, Bothalia 27: 4. 1997**

*Plectranthus saccatus* subsp. *pondoensis* van Jaarsv. & T.J.Edwards, Bothalia 27: 4. 1997. Type: South Africa KwaZulu-Natal, 3030 (Port Shepstone): Oribi Gorge, (-CA), E. van Jaarsveld 2201 (holotype: PRE).

**Distribution.** South Africa: SE. Cape Prov. to S. KwaZulu-Natal.

***Plectranthus scaposus* Hedge, Fl. Madag. 175: 157. 1998**

*Plectranthus scaposus* Hedge, Fl. Madag. 175: 157. 1998. Type: Madagascar, Antsirana, rés. nat. du Marojejy, pentes au nord d'Ambatosoratra, Miller 4232 (holotype: P; isotype: MO).

**Distribution.** Madagascar.

***Plectranthus secundiflorus* (Baker) Hedge, Fl. Madag. 175: 180. 1998**

*Orthosiphon secundiflorus* Baker, J. Linn. Soc., Bot. 21: 433. 1885. Type: Madagascar, central, Baron 1226 (holotype: K).

**Distribution.** Madagascar.

***Plectranthus strangulatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 246. 2009**

*Plectranthus strangulatus* A.J.Paton, Fl. Trop. E. Afr., Lamiac.: 246. 2009. Type: Tanzania, Morogoro District: Uluguru Mts, Kitundu, E.M. Bruce 957 (holotype: K (K000431930); isotypes: BR, K (K000431929)).

**Distribution.** Tanzania (Uluguru Mts.).

***Plectranthus strigosus* Benth. ex E.Mey., Comm. Pl. Afr. Austr.: 229. 1838**

*Plectranthus strigosus* Benth. ex E.Mey., Comm. Pl. Afr. Austr.: 229. 1838. Type: South Africa, Cape, Olifantshoek Forest (Alexandria), 1836, Eklon s.n. (lectotype: K (K000430853), designated by Codd 1975).

*Plectranthus parviflorus* Gürke in C.E.O.Kuntze, Revis. Gen. Pl. 3(2): 261. 1898., nom. illeg., non *P. parviflorus* Willd.

*Plectranthus kuntzeanus* Domin, Biblioth. Bot. 89: 564. 1928. Type: South Africa, East London, Kuntze s.n. (lectotype: NY, designated by Codd 1975).

**Distribution.** South Africa: S. Cape Prov.

***Plectranthus stylesii* T.J.Edwards, Bothalia 35: 149. 2005**

*Plectranthus stylesii* T.J.Edwards, Bothalia 35: 149. 2005. Type: South Africa, Port St Johns, Msikaba River Gorge, c. 4km from the mouth, Edwards 3259 (holotype: NU; isotypes: E, GRA, K, PRE).

**Distribution.** South Africa: Eastern Cape Prov.

***Plectranthus swynnertonii* S.Moore, J. Linn. Soc., Bot. 40: 176. 1911**

*Plectranthus swynnertonii* S.Moore, J. Linn. Soc., Bot. 40: 176. 1911. Type: Zimbabwe, Chirinda forest, Swynnerton 337 (holotype: K).

**Distribution.** S. Trop. Africa to South Africa, Mpumalanga.

***Plectranthus trilobus* Hedge, Fl. Madag. 175: 205. 1998**

*Plectranthus trilobus* Hedge, Fl. Madag. 175: 205. 1998. Type: Madagascar, dans le haut bassin de l'Andranomaizina, affluent de l'Imonty, au-dessous du col d'Etsilotsilo, Capuron SF 22442 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus verticillatus* (L.f.) Druce, Rep. Bot. Soc. Exch. Club Brit. Isles 4: 640. 1916 (publ. 1917)**

*Ocimum verticillatum* L.f., suppl. Pl.: 276. 1782.

*Plectranthus thunbergii* Benth., Labiat. Gen. Spec.: 37. 1832., nom. illeg. Type: South Africa, Cape, Thunbergs.n. (holotype: LINN 749.4).

*Ocimum racemosum* Thunb., Prodr. Pl. Cap.: 96. 1800. Type: South Africa, Cape, Houteniquas, Thunberg s.n. (holotype: UPS; isotype: SBT).

*Plectranthus nummularius* Briq., Bull. Herb. Boissier, sér. 2, 3: 1072. 1903. Type: South Africa, KwaZulu-Natal, Camperdown, n.d., Rehmann 7702 (holotype: Z).



**Distribution.** S. Mozambique to South Africa.

***Plectranthus vestitus* Benth., Labiat. Gen. Spec.: 32. 1832**

Fig.9D

*Plectranthus vestitus* Benth., Labiat. Gen. Spec.: 32. 1832. Type: Madagascar, Prov. de Bezanozano, Bojer s.n. (holotype: K).

**Distribution.** Madagascar.

***Plectranthus vinaceus* Hedge, Fl. Madag. 175: 148. 1998**

*Plectranthus vinaceus* Hedge, Fl. Madag. 175: 148. 1998. Type: Madagascar, sommet oriental du massif du Marojejy, à l'ouest de la haute Manantenina, affluent de la Lokoho, Humbert 22737 (holotype: P).

**Distribution.** Madagascar.

***Plectranthus zuluensis* T.Cooke, Bull. Misc. Inform. Kew 1909: 379. 1909**

*Plectranthus zuluensis* T.Cooke, Bull. Misc. Inform. Kew 1909: 379. 1909. Type: South Africa, Natal, Gerrard 1675 (holotype: K).

**Distribution.** South Africa: SE. Cape Prov. to Swaziland

**Unplaced names**

*Anisochilus siamensis* Ridl., J. Straits Branch Roy. Asiat. Soc. 59: 159. 1911. Type: Thailand, Bangsaphan Distr., Prachuap Khirikhan Province, Keith s.n. (not seen- see also Suddee & Paton (2009)).

*Coleus anamallayensis* Bedd., Madras J. Lit. Sci., ser. 2, 22: 73. 1861. Type: not seen, not cited in protologue.

*Coleus aulihanensis* Schweinf. & Volken, Liste Pl. Somalis: 211. 1897. Type: Ethiopia, Aulihan, Dec. 1895 to Jan 1996, Schweinfurth & Volken s.n. (not seen). Protologue suggests similarity to *C. igniarius*.

*Coleus kisanfuensis* De Wild., Contr. Fl. Katanga: 174. 1921. Types: Democratic Republic of Congo, Elizabethville, Hock s.n. (syntype: not seen); Kiasanfu, Hock s.n. (syntype: not seen).

- Coleus luengerensis* Gürke, Bot. Jahrb. Syst. 38: 167. 1906. Type: Tanzania, Usambara, Tanga, x. 1895, Heinsen 121 (syntype: B, destroyed); Sept. 1902, Engler 890 (syntype: B, destroyed).
- Coleus mechowianus* Briq., Bot. Jahrb. Syst. 19: 183. 1894. Type: Angola, Pungo Andongo, Mechow 123 (B, holotype destroyed). Protologue suggests similarity to *C. tenuicaulis*.
- Coleus nervosus* Briq., Bot. Jahrb. Syst. 19: 185. 1894. Type: DRC; South Central Kasongo; near the Lomami River, Pogge 1034 (B, holotype, destroyed).
- Coleus parensis* Gürke, Bot. Jahrb. Syst. 41: 317. 1908. Types: Tanzania, Pare District: foot of Pare Mts, Sengina–Simba, Engler 1620 (syntype: B, destroyed) & Uluguru Mts, Meyer 188 (syntype: B, destroyed).
- Coleus petrophilus* Gürke, Bot. Jahrb. Syst. 41: 319. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Mbalu, Engler 1488 (holotype: B, destroyed).
- Coleus petersianus* Vatke, Linnaea 40: 180. 1876. Type: Mozambique, Rios de Sena, Peters s.n. (holotype: B, destroyed). The protologue suggests that this is either *C. bojeri* or *C. welwitschii*.
- Coleus poggeanus* Briq., Bot. Jahrb. Syst. 19: 182. 1894. Type: DRC, Mussumba des Muata Jamwo, Jan. 1876, Pogge 364 (type: B, destroyed).
- Coleus preussii* Gürke, Bot. Jahrb. Syst. 19: 219. 1894. Type: Cameroon, Buea, Preuss 691 (B, destroyed, isotype); Dusen 309 (B, destroyed).
- Coleus saxicola* Gürke, Bot. Jahrb. Syst. 41: 316. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Kwai, Eick 27 (syntype: B, destroyed) & Engler 2250 (syntype: B, destroyed).
- Coleus subscandens* Gürke, Bot. Jahrb. Syst. 41: 319. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Mlalo, Engler 1394 (holotype: B, destroyed).
- Coleus ulugurensis* Gürke, Bot. Jahrb. Syst. 28: 470. 1900. Type: Tanzania, Morogoro District: NE Uluguru Mts, Kitope, Stuhlmann 9060 (holotype: B, destroyed).
- Coleus viridis* Briq., Bot. Jahrb. Syst. 19: 181. 1894. Type: DRC, Mussumba, Pogge 365, (B, holotype, destroyed).
- Coleus wugensis* Gürke, Bot. Jahrb. Syst. 41: 318. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Wuga area, Engler 1165 (holotype: B, destroyed).
- Plectranthus crenatus* Gürke, Bot. Jahrb. Syst. 19: 208. 1894. Type: Tanzania, Lushoto District: Usambara Mts, Maschewa, Holst 8730 (holotype: B, destroyed).
- Plectranthus eminii* Gürke, Bot. Jahrb. Syst. 19: 207. 1894. Type: Tanzania, Bukoba, Stuhlmann 3882 (holotype: B, destroyed).
- Plectranthus holstii* Gürke, Bot. Jahrb. Syst. 19: 204. 1894. Type: Tanzania, Lushoto District: W Usambara Mts, Mlalo, Holst 248 (holotype: B, destroyed). Perhaps close to *E. orbiculare* (Gürke) Mwany. & A.J.Paton.
- Plectranthus lycopifolius* A.Rich., Tent. Fl. Abyss. 2: 181. 1850. Type Ethiopia, Tigre, near Adoa, Quartin-Dillon (holotype: P, not seen, no Richard specimen in P which matches protologue.).
- Plectranthus mbaluensis* Gürke, Bot. Jahrb. Syst. 36: 136. 1905. Type: Tanzania, W Usambara Mts, Mbalu, Engler 1479 (holotype: B, destroyed). Note. Similar to *E. kamerunense*.

- Plectranthus lindblomii* T.C.E.Fr., Notizbl. Bot. Gart. Berlin-Dahlem 11: 28. 1930. Type: Kenya, Mt Elgon, Kitosh, Lindblom s.n. (holotype: B, destroyed).
- Plectranthus marquesii* Gürke, Bol. Soc. Brot. 16: 70. 1896. Type: Angola, R. Cuillo, Marques 197 (holotype: B, destroyed).
- Plectranthus mildbraedii* Perkins in G.W.J.Mildbraed (ed.), Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 549. 1913. Type: Uganda, Virunga Mts (Vulkan Mts), Karisimbi, Mildbraed 1618 (holotype: B, destroyed). Note. Protologue suggests relationship to *E. longipes* or *E. kamerunense*.
- Plectranthus microphyllus* Gürke, Bot. Jahrb. Syst. 28: 467. 1900. Type: Tanzania, Morogoro District: E Uluguru Mts, Stuhlmann 8748 (holotype: B, destroyed).
- Plectranthus miserabilis* Briq., Bot. Jahrb. Syst. 19: 180. 1895. Type: Democratic Republic of Congo, South Central Lunda; Mukenge, in Bashilange district, Pogge 1022 (type: not seen).
- Plectranthus monticola* Gürke, Bot. Jahrb. Syst. 28: 468. 1900. Type: Tanzania, Morogoro District: Uluguru Mts, Lukwangule, Stuhlmann 9166 (holotype: B, destroyed). Schlieben 2854 (BM, LISC) has been determined as *C. monticola*. These specimens are *C. trullatus*. However the description is a better match for the closely related *C. triangularis* which also occurs in the Uluguru Mts.
- Plectranthus nodosus* Bellardi ex Colla, Herb. Pedem. 4: 475. 1835. Listed as dubious species, no type details.
- Plectranthus pallidus* Biroli ex Colla, Herb. Pedem. 4: 475. 1835. Listed as dubious species, no type details.
- Plectranthus pendulus* Gürke, Bot. Jahrb. Syst. 41: 314. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Engler 1180 (holotype: B, destroyed).
- Plectranthus rupicola* Gürke, Bot. Jahrb. Syst. 41: 313. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Mbalu, Engler 1457 (holotype: B, destroyed).
- Plectranthus pratensis* Gürke, Bot. Jahrb. Syst. 19: 201. 1894. Type: Tanzania, Kilimanjaro, Marangu, Volkens 634 & W Usambara Mts, Mlalo, Holst 459 (syntype: B, destroyed).
- Plectranthus sakarensis* Gürke, Bot. Jahrb. Syst. 41: 313. 1908. Type: Tanzania, Lushoto District: W Usambara Mts, Sakare, Engler 989a (holotype: B, destroyed).
- Plectranthus schweinfurthii* Sprenger, Wiener Ill. Gart.-Zeitung 19: 1. 1894, non *C. schweinfurthii* Vatke Type: Arabian Peninsula (type: not seen).
- Plectranthus saxatilis* Gürke, Bot. Jahrb. Syst. 36: 133. 1905. Types: Tanzania, Lushoto District: W Usambara Mts, Mlalo, Holst 345 & 611 & Engler 1485 (syntypes: B, destroyed).
- Plectranthus stuhlmannii* Gürke, Bot. Jahrb. Syst. 28: 469. 1900. Type: Tanzania, Morogoro District: S Uluguru Mts, Dundumi stream, Stuhlmann 9291 (holotype: B, destroyed) Protologue suggests similarity to *E. laxiflorum*.
- Plectranthus usambarensis* Gürke, Bot. Jahrb. Syst. 19: 207. 1894. Type: Tanzania, Lushoto District: Usambara Mts, Mlalo, Holst 487 (holotype: B, destroyed).
- Saccostoma urticifolia* Wall. ex Voigt Hortus Suburbanus Calcuttensis 449. 1845. Type: not seen.



*Solenostemon bullatus* Briq., Bot. Jahrb. Syst. 19: 180. 1894.

*Coleus bullulatus* Briq., Bull. Soc. Roy. Bot. Belgique 37: 69. 1899. nom. illeg. Type: DRC, Lulua River, 9.30 S, May 1876, Pogge 356. (holotype: not seen)

## Excluded names

*Coleus wulfenioides* Diels: ***Orthosiphon wulfenioides*** (Diels) Hand.-Mazz.

*Plectranthus adenanthus* Diels: ***Isodon adenanthus*** (Diels) Kudô

*Plectranthus adenolomus* Hand.-Mazz.: ***Isodon adenolomus*** (Hand.-Mazz.) H.Hara

*Plectranthus albidus* Baker: ***Capitanopsis albida*** (Baker) Hedge

*Plectranthus allenii* C.H.Wright: ***Orthosiphon allenii*** (C.H.Wright) Codd

*Plectranthus amethystoides* Benth.: ***Isodon amethystoides*** (Benth.) H.Hara

*Plectranthus angustifolius* Dunn: ***Isodon angustifolius*** (Dunn) Kudô

*Plectranthus assamicus* Mukerjee: ***Isodon assamicus*** (Mukerjee) H.Hara

*Plectranthus axillariflorus* Honda: ***Isodon shikokianus* var. *intermedius*** (Kudô) Murata

*Plectranthus barrelieri* (Roth) Spreng.: ***Ocimum basilicum*** L.

*Plectranthus benthamianus* Miq.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô

*Plectranthus bifidocalyx* Dunn: ***Isodon macrocalyx*** (Dunn) Kudô

*Plectranthus bolusii* T.Cooke: ***Orthosiphon thymiflorus*** (Roth) Sleesen

*Plectranthus brandisii* Prain: ***Isodon walkeri*** (Arn.) H.Hara

*Plectranthus brevifolius* Hand.-Mazz.: ***Isodon brevifolius*** (Hand.-Mazz.) H.W.Li

*Plectranthus buckia* Buch.-Ham. ex D.Don: ***Isodon ternifolius*** (D.Don) Kudô

*Plectranthus buergeri* Miq.: ***Isodon japonicus* var. *japonicus***

*Plectranthus bullatus* Benth.: ***Isodon nilgherricus*** (Benth.) H.Hara

*Plectranthus bullatus* Robyns & Lebrun: ***Isodon ramosissimus*** (Hook.f.) Codd

*Plectranthus bulleyanus* Diels: ***Isodon bulleyanus*** (Diels) Kudô

*Plectranthus calcicola* Hand.-Mazz.: ***Isodon calcicola*** (Hand.-Mazz.) H.Hara

*Plectranthus calcicola* var. *subcalvus* Hand.-Mazz.: ***Isodon calcicola* var. *subcalvus*** (Hand.-Mazz.) H.W.Li

*Plectranthus capillipes* Benth.: ***Isodon capillipes*** (Benth.) H.Hara

*Plectranthus cardiophyllus* Hemsl.: ***Heterolamium debile* var. *cardiophyllum*** (Hemsl.) C.Y.Wu

*Plectranthus cavaleriei* H.Lév.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô

*Plectranthus chamaedrys* H.Lév., = ***Triumfetta annua*** L. (Malvaceae)

*Plectranthus chenmui* Y.Z.Sun: ***Isodon phyllopodus*** (Diels) Kudô

*Plectranthus chienii* Y.Z.Sun: ***Isodon hispidus*** (Benth.) Murata

*Plectranthus coetsa* Buch.-Ham. ex D.Don: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô

*Plectranthus colaniae* Doan: ***Isodon colaniae*** H.Hara ex Suddee & A.J.Paton

*Plectranthus coloratus* D.Don: ***Platostoma coloratum*** (D.Don) A.J.Paton

*Plectranthus coreanus* Vaniot: ***Isodon inflexus*** (Thunb.) Kudô

*Plectranthus crenulatus* Hook.f.: ***Paralamium griffithii*** (Hook.f.) Suddee & A.J.Paton

- Plectranthus daitonensis* Hayata: ***Isodon amethystoides*** (Benth.) H.Hara  
*Plectranthus daoii* Phuong: ***Paralamium griffithii*** (Hook.f.) Suddee & A.J.Paton  
*Plectranthus dawoensis* Hand.-Mazz.: ***Isodon dawoensis*** (Hand.-Mazz.) H.Hara  
*Plectranthus dhankutanus* (Murata) Bennet: ***Isodon dhankutanus*** Murata  
*Plectranthus dichromophyllus* Diels: ***Isodon rubescens*** (Hemsl.) H.Hara  
*Plectranthus diffusus* Merr.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus discolor* Dunn: ***Isodon parvifolius*** (Batalin) H.Hara  
*Plectranthus drogotschiensis* Hand.-Mazz.: ***Isodon barbeyanus*** (H.Lév.) H.W.Li  
*Plectranthus drosocarpus* Hand.-Mazz.: ***Isodon macrocalyx*** (Dunn) Kudô  
*Plectranthus dubius* Vahl ex Benth.: ***Isodon amethystoides*** (Benth.) H.Hara  
*Plectranthus effusus* (Maxim.) Honda: ***Isodon effusus*** (Maxim.) H.Hara  
*Plectranthus enanderianus* Hand.-Mazz.: ***Isodon enanderianus*** (Hand.-Mazz.) H.W.Li  
*Plectranthus eriocalyx* Dunn: ***Isodon eriocalyx*** (Dunn) Kudô  
*Plectranthus esquirolii* H.Lév.: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus etiolatus* Chiov.: ***Platostoma rotundifolium*** (Briq.) A.J.Paton  
*Plectranthus excisoides* Y.Z.Sun ex C.H.Hu: ***Isodon excisoides*** (Y.Z.Sun ex C.H.Hu) H.Hara  
*Plectranthus excisus* Maxim.: ***Isodon excisus*** (Maxim.) Kudô  
*Plectranthus excisus* var. *shikokianus* Makino: ***Isodon shikokianus*** (Makino) H.Hara  
*Plectranthus fangii* Y.Z.Sun: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus flavidus* Hand.-Mazz.: ***Isodon flavidus*** (Hand.-Mazz.) H.Hara  
*Plectranthus forrestii* Diels: ***Isodon forrestii*** (Diels) Kudô  
*Plectranthus garrettii* Craib: ***Platostoma calcaratum* var. *garrettii*** (Craib) Suddee  
*Plectranthus gerardianus* Benth.: ***Isodon lophanthoides*** (Buch.-Ham. ex D.Don) H.Hara  
*Plectranthus gesneroides* J.Sinclair: ***Isodon gesneroides*** (J.Sinclair) H.Hara  
*Plectranthus glaucocalyx* Maxim.: ***Isodon japonicus* var. *glaucocalyx*** (Maxim.) H.W.Li  
*Plectranthus graciliflorus* Benth.: ***Isodon lophanthoides* var. *graciliflorus*** (Benth.) H.Hara  
*Plectranthus grandifolius* Hand.-Mazz.: ***Isodon grandifolius*** (Hand.-Mazz.) H.Hara  
*Plectranthus griffithii* Hook.f.: ***Paralamium griffithii*** (Hook.f.) Suddee & A.J.Paton  
*Plectranthus grosseserratus* Dunn: ***Isodon grosseserratus*** (Dunn) Kudô  
*Plectranthus hanceiformis* H.Lév.: ***Teucrium bidentatum*** Hemsl.  
*Plectranthus henryi* Hemsl.: ***Isodon henryi*** (Hemsl.) Kudô  
*Plectranthus hians* Benth.: ***Isodon nigrescens*** (Benth.) H.Hara  
*Plectranthus hirtellus* Hand.-Mazz.: ***Isodon hirtellus*** (Hand.-Mazz.) H.Hara  
*Plectranthus hispidus* Benth.: ***Isodon hispidus*** (Benth.) Murata  
*Plectranthus hispidus* var. *glabrior* Benth.: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus hoslundii* Baker: ***Isodon ramosissimus*** (Hook.f.) Codd  
*Plectranthus hosseusii* Muschl.: ***Isodon ternifolius*** (D.Don) Kudô  
*Plectranthus inconspicuus* Miq.: ***Isodon inflexus*** (Thunb.) Kudô  
*Plectranthus indicus* (Roth) Spreng.: ***Ocimum filamentosum*** Forssk.  
*Plectranthus inflexus* (Thunb.) Vahl ex Benth.: ***Isodon inflexus*** (Thunb.) Kudô  
*Plectranthus inflexus* var. *macrophyllus* Maxim.: ***Isodon inflexus*** (Thunb.) Kudô  
*Plectranthus inflexus* f. *macrophyllus* (Maxim.) Kitag.: ***Isodon inflexus*** (Thunb.) Kudô  
*Plectranthus inflexus* f. *subglabrus* Makino: ***Isodon inflexus*** (Thunb.) Kudô

- Plectranthus inflexus* var. *umbrosus* Maxim.: ***Isodon umbrosus*** (Maxim.) H.Hara  
*Plectranthus inflexus* var. *verticillatus* Makino: ***Isodon inflexus*** (Thunb.) Kudô  
*Plectranthus intermedius* Zoll. & Moritzi: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus intermedius* Benth. nom. illeg.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus irroratus* Forrest ex Diels: ***Isodon irroratus*** (Forrest ex Diels) Kudô  
*Plectranthus japonicus* (Burm.f.) Koidz.: ***Isodon japonicus*** (Burm.f.) H.Hara  
*Plectranthus japonicus* var. *macraei* (Benth.) S.R.Sriniv.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus javanicus* (Blume) Benth.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus kameba* (Okuyama ex Ohwi) Ohwi: ***Isodon umbrosus*** (Maxim.) H.Hara  
*Plectranthus kurzii* Prain: ***Isodon kurzii*** (Prain) H.Hara  
*Plectranthus lanceus* Nakai: ***Isodon shikokianus* var. *intermedius*** (Kudô) Murata  
*Plectranthus lasiocarpus* Hayata: ***Isodon serra*** (Maxim.) Kudô  
*Plectranthus leptobotrys* Diels: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus leucanthus* Diels: ***Isodon phyllopodus*** (Diels) Kudô  
*Plectranthus leucophyllus* Dunn: ***Isodon leucophyllus*** (Dunn) Kudô  
*Plectranthus longicornis* F.Muell.: ***Platostoma longicorne*** (F.Muell.) A.J.Paton  
*Plectranthus longitubus* Miq.: ***Isodon longitubus*** (Miq.) Kudô  
*Plectranthus longitubus* var. *albiflorus* Makino: ***Isodon longitubus*** (Miq.) Kudô  
*Plectranthus longitubus* var. *contractus* Maxim.: ***Isodon longitubus*** (Miq.) Kudô  
*Plectranthus longitubus* var. *effusus* Maxim.: ***Isodon effusus*** (Maxim.) H.Hara  
*Plectranthus lophanthoides* (Buch.-Ham. ex D.Don) Grierson & D.G.Long: ***Isodon lophanthoides*** (Buch.-Ham. ex D.Don) H.Hara  
*Plectranthus loxothyrsus* Hand.-Mazz.: ***Isodon loxothyrsus*** (Hand.-Mazz.) H.Hara  
*Plectranthus macraei* Benth.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus macranthus* Hook.f.: ***Siphocranion macranthum*** (Hook.f.) C.Y.Wu  
*Plectranthus macrocalyx* Dunn: ***Isodon macrocalyx*** (Dunn) Kudô  
*Plectranthus maddenii* Benth. ex Hook.f.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus mairei* H.Lév.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus marmoritis* Hance: ***Orthosiphon thymiflorus*** (Roth) Sleesen  
*Plectranthus maximowiczii* Miq.: ***Isodon japonicus* var. *glaucocalyx*** (Maxim.) H.W.Li  
*Plectranthus meeboldii* W.W.Sm.: ***Isodon meeboldii*** (W.W.Sm.) Suddee  
*Plectranthus megathyrsus* Diels: ***Isodon megathyrsus*** (Diels) H.Hara  
*Plectranthus melissoides* Benth.: ***Isodon melissoides*** (Benth.) H.Hara  
*Plectranthus menthoides* Moritzi: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus menthoides* Willd.: ***Ocimum filamentosum*** Forssk.  
*Plectranthus menthoides* Benth.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus micranthus* Spreng.: ***Basilicum polystachyon*** (L.) Moench  
*Plectranthus mollissimus* Wall. ex Benth.: ***Orthosiphon rubicundus* var. *rubicundus***  
*Plectranthus monachorum* (L.) Spreng.: ***Ocimum tenuiflorum*** L.  
*Plectranthus moschatus* R.Br.: ***Basilicum polystachyon*** (L.) Moench  
*Plectranthus moslifolius* H.Lév.: ***Isodon nervosus*** (Hemsl.) Kudô  
*Plectranthus muliensis* W.W.Sm.: ***Isodon muliensis*** (W.W.Sm.) Kudô



- Plectranthus multiflorus* Hochst. ex Benth.: ***Tetradenia multiflora*** (Benth.) Phillipson  
*Plectranthus namikawanus* (Murata) Bennet: ***Isodon namikawanus*** Murata  
*Plectranthus nankinensis* Spreng., Syst. Veg. 2: 691. 1825). based on *Dentidia nankinensis* Lour, Flora Cochinchinensis ed. 2: 448. 1793. Type: China, Nanjing, Loureiro s.n. (holotype: P) = ***Perilla ocymoides* L. var. *crispa*** Benth.  
*Plectranthus neglectus* Dinter: ***Aeollanthus neglectus*** (Dinter) Launert  
*Plectranthus nepetifolius* Benth.: ***Isodon wightii*** (Benth.) H.Hara  
*Plectranthus nervosus* Hemsl.: ***Isodon nervosus*** (Hemsl.) Kudô  
*Plectranthus nigrescens* Benth.: ***Isodon nigrescens*** (Benth.) H.Hara  
*Plectranthus nigrescens* var. *pilosus* L.H.Cramer: ***Isodon nigrescens*** (Benth.) H.Hara  
*Plectranthus nilgherricus* Benth.: ***Isodon nilgherricus*** (Benth.) H.Hara  
*Plectranthus nudipes* Hemsl.: ***Siphocranion nudipes*** (Hemsl.) Kudô  
*Plectranthus oblongifolius* Wall. ex Benth.: ***Isodon lophanthoides* var. *graciliflorus*** (Benth.) H.Hara  
*Plectranthus oreophilus* Diels: ***Isodon oreophilus*** (Diels) A.J.Paton & Ryding  
*Plectranthus oreophilus* var. *elongatus* Hand.-Mazz.: ***Isodon oreophilus*** (Diels) A.J.Paton & Ryding  
*Plectranthus oresbius* W.W.Sm.: ***Isodon oresbius*** (W.W.Sm.) Kudô  
*Plectranthus ovatifolius* Oliv.: ***Ocimum lamiifolium*** Hochst. ex Benth.  
*Plectranthus pachythyrsus* Hand.-Mazz.: ***Isodon leucophyllus*** (Dunn) Kudô  
*Plectranthus palisotii* Benth.: ***Plectranthus monostachyus*** (P.Beauv.) B.J.Pollard  
*Plectranthus paniculatus* Baker: ***Isodon ramosissimus*** (Hook.f.) Codd  
*Plectranthus pantadenius* Hand.-Mazz.: ***Isodon pantadenius*** (Hand.-Mazz.) H.W.Li  
*Plectranthus parviflorus* R.Br.: ***Basilicum polystachyon*** (L.) Moench  
*Plectranthus parvifolius* (Batalin) C.Pei: ***Isodon parvifolius*** (Batalin) H.Hara  
*Plectranthus parvifolius* Talbot, J. Bombay Nat. Hist. Soc. 11: 238 plate x. 1897. S. India. Type: Illustration cited above: ***Isodon***  
*Plectranthus patchoulia* C.B.Clarke ex Hook.f.: ***Microtoena patchoulia*** (C.B.Clarke ex Hook.f.) C.Y.Wu & S.J.Hsuan  
*Plectranthus pekinensis* Maxim.: ***Isodon amethystoides*** (Benth.) H.Hara  
*Plectranthus pharicus* Prain: ***Isodon pharicus*** (Prain) Murata  
*Plectranthus phulchokiensis* (Murata) Bennet: ***Isodon phulchokiensis*** (Murata) H.Hara  
*Plectranthus phyllopodus* Diels: ***Isodon phyllopodus*** (Diels) Kudô  
*Plectranthus phyllostachys* Diels: ***Isodon phyllostachys*** (Diels) Kudô  
*Plectranthus pleiophyllus* Diels: ***Isodon pleiophyllus*** (Diels) Kudô  
*Plectranthus polystachys* Y.Z.Sun ex C.H.Hu: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus prainianus* (H.Lév.) Dunn: ***Siphocranion macranthum*** (Hook.f.) C.Y.Wu  
*Plectranthus provicarii* H.Lév.: ***Isodon bulleyanus*** (Diels) Kudô  
*Plectranthus pulneyensis* Hook.f.: ***Isodon wightii*** (Benth.) H.Hara  
*Plectranthus racemosus* Hemsl.: ***Isodon racemosus*** (Hemsl.) Murata  
*Plectranthus ramosissimus* Hook.f.: ***Isodon ramosissimus*** (Hook.f.) Codd  
*Plectranthus rariflorus* Hochst.: ***Endostemon obtusifolius*** (E.Mey.) N.E.Br.  
*Plectranthus repens* Wall. ex Benth.: ***Isodon repens*** (Wall. ex Benth.) Murata

- Plectranthus ricinispermus* Pamp.: ***Isodon rubescens*** (Hemsl.) H.Hara  
*Plectranthus riparius* Hochst.: ***Tetradenia riparia*** (Hochst.) Codd  
*Plectranthus rivularis* Wight ex Hook.f.: ***Isodon rivularis*** (Wight ex Hook.f.) H.Hara  
*Plectranthus rosthornii* Diels: ***Isodon rosthornii*** (Diels) Kudô  
*Plectranthus rubescens* Hemsl.: ***Isodon rubescens*** (Hemsl.) H.Hara  
*Plectranthus rubicundus* D.Don: ***Orthosiphon rubicundus*** (D.Don) Benth.  
*Plectranthus rufescens* Benth.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus rugosiformis* Hand.-Mazz.: ***Isodon rugosiformis*** (Hand.-Mazz.) H.Hara  
*Plectranthus rugosus* Wall. ex Benth.: ***Isodon rugosus*** (Wall. ex Benth.) Codd  
*Plectranthus rugosus* var. *tomentosus* Benth.: ***Isodon coetsa*** (Buch.-Ham. ex D.Don) Kudô  
*Plectranthus rupicola* Dinter ex Gooss.: ***Aeollanthus buchnerianus*** Briq.  
*Plectranthus salicarius* Hand.-Mazz.: ***Isodon nervosus*** (Hemsl.) Kudô  
*Plectranthus salvioides* (B.Heyne ex Roth) Benth.: ***Perilla frutescens*** L.  
*Plectranthus scabrellus* Benth.: ***Isodon nigrescens*** (Benth.) H.Hara  
*Plectranthus schimperi* Vatke: ***Isodon schimperi*** (Vatke) J.K.Morton  
*Plectranthus schimperi* Chiov., nom. illeg.: ***Isodon schimperi*** (Vatke) J.K. Morton  
*Plectranthus scrophularioides* Wall. ex Benth.: ***Isodon scrophularioides*** (Wall. ex Benth.) Murata  
*Plectranthus sculponiatus* Vaniot: ***Isodon sculponiatus*** (Vaniot) Kudô  
*Plectranthus serra* Maxim.: ***Isodon serra*** (Maxim.) Kudô  
*Plectranthus setschwanensis* Hand.-Mazz.: ***Isodon setschwanensis*** (Hand.-Mazz.) H.Hara  
*Plectranthus shikokianus* (Makino) Makino: ***Isodon shikokianus*** (Makino) H.Hara  
*Plectranthus shikokianus* var. *intermedius* (Kudô) Ohwi: ***Isodon shikokianus* var. *intermedius*** (Kudô) Murata  
*Plectranthus shikokianus* var. *occidentalis* (Murata) Ohwi: ***Isodon shikokianus* var. *occidentalis*** Murata  
*Plectranthus sinensis* Miq.: ***Isodon amethystoides*** (Benth.) H.Hara  
*Plectranthus smithianus* Hand.-Mazz.: ***Isodon smithianus*** (Hand.-Mazz.) H.Hara  
*Plectranthus stocksii* Hook.f.: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus stracheyi* Benth. ex Hook.f.: ***Isodon walkeri*** (Arn.) H.Hara  
*Plectranthus striatus* Hook.f. & Thomson: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus striatus* Wight ex Hook.f.: ***Isodon wightii*** (Benth.) H.Hara  
*Plectranthus striatus* Benth.: ***Isodon lophanthoides* var. *graciliflorus*** (Benth.) H.Hara  
*Plectranthus striatus* var. *gerardianus* Hand.-Mazz.: ***Isodon lophanthoides*** (Buch.-Ham. ex D.Don) H.Hara  
*Plectranthus striatus* var. *graciliflorus* (Benth.) Hand.-Mazz.: ***Isodon lophanthoides* var. *graciliflorus*** (Benth.) H.Hara  
*Plectranthus striatus* var. *kerrii* Doan: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus subacaulis* Baker: ***Aeollanthus subacaulis*** (Baker) Hua & Briq.  
*Plectranthus succulentus* R.A.Dyer & E.A.Bruce: ***Thorncroftia succulenta*** (R.A.Dyer & E.A.Bruce) Codd  
*Plectranthus tatei* Hemsl.: ***Isodon lophanthoides* var. *graciliflorus*** (Benth.) H.Hara



- Plectranthus tenuifolius* W.W.Sm.: ***Isodon tenuifolius*** (W.W.Sm.) Kudô  
*Plectranthus ternifolius* D.Don: ***Isodon ternifolius*** (D.Don) Kudô  
*Plectranthus teysmannii* Miq.: ***Isodon teysmannii*** (Miq.) H.W.Li  
*Plectranthus thiothysus* Hand.-Mazz.: ***Isodon leucophyllus*** (Dunn) Kudô  
*Plectranthus thorncroftii* S.Moore: ***Thorncroftia thorncroftii*** (S.Moore) Codd  
*Plectranthus thymiflorus* (Roth) Spreng.: ***Orthosiphon thymiflorus*** (Roth) Sleesen  
*Plectranthus trichocarpus* Maxim.: ***Isodon trichocarpus*** (Maxim.) Kudô  
*Plectranthus tristis* (Roth) Spreng.: ***Orthosiphon thymiflorus*** (Roth) Sleesen  
*Plectranthus tuberosus* Roxb. ex Benth.: ***Orthosiphon rubicundus* var. *rubicundus***  
*Plectranthus umbrosus* (Maxim.) Makino: ***Isodon umbrosus*** (Maxim.) H.Hara  
*Plectranthus veronicifolius* Hance: ***Isodon walkeri*** (Arn.) H.Hara  
*Plectranthus virgatus* D.Don: ***Orthosiphon rubicundus* var. *rubicundus***  
*Plectranthus viscosus* (Roth) Spreng.: ***Endostemon viscosus*** (Roth) M.R.Ashby  
*Plectranthus volkensianus* Muschl.: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus volkmannae* Dinter: ***Aeollanthus buchnerianus*** Briq.  
*Plectranthus walkeri* Arn.: ***Isodon walkeri*** (Arn.) H.Hara  
*Plectranthus wardii* C.Marquand & Airy Shaw: ***Isodon wardii*** (C.Marquand & Airy Shaw) H.Hara  
*Plectranthus websteri* Hemsl.: ***Isodon websteri*** (Hemsl.) Kudô  
*Plectranthus whytei* Baker: ***Isodon ramosissimus*** (Hook.f.) Codd  
*Plectranthus wightii* Benth.: ***Isodon wightii*** (Benth.) H.Hara  
*Plectranthus wightii* J.Graham: ***Isodon lophanthoides* var. *lophanthoides***  
*Plectranthus wikstroemioides* Hand.-Mazz.: ***Isodon wikstroemioides*** (Hand.-Mazz.) H.Hara  
*Plectranthus wui* Y.Z.Sun: ***Isodon adenanthus*** (Diels) Kudô  
*Plectranthus yuennanensis* Hand.-Mazz.: ***Isodon yuennanensis*** (Hand.-Mazz.) H.Hara  
*Plectranthus zenkeri* Gürke: ***Isodon ramosissimus*** (Hook. f.) Codd  
*Plectranthus zollingeri* Briq.: ***Isodon teysmannii*** (Miq.) H.W.Li

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